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105-N & 109-N SAFE STORAGE ENCLOSURE (SSE) FINAL ROOM STATUS REPORT

SECTION 1 OF 11

105-N & 109-N SAFE STORAGE ENCLOSURE (SSE)

FINAL ROOM STATUS

REPORT

AUGUST 2012

PREPARED BY: Joe Delaney

105-N & 109-N SSE FINAL ROOM STATUS REPORT

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105-N & 109-N SAFE STORAGE ENCLOSURE (SSE) FINAL ROOM STATUS REPORT

1.0 PURPOSE OF FINAL ROOM STATUS REPORT

The purpose of the final room status report is to document the current as-left condition of the accessible rooms in the 105-N and 109-N facilities at final turnover. The majority of the rooms in the Zone I area inside the building shield walls were not included in the SSE work scope nor in this report due to high radiation levels in these areas.

2.0 PROCESS USED FOR FINAL ROOM TURNOVERS & RESULTS

Facility History

The 105-N Reactor Facility was a 4,000-megawatt (thermal) nuclear reactor designed to operate as a dual purpose reactor. The reactor core is a graphite-moderated, light water-cooled, horizontal pressure-tube facility designed to produce plutonium. By-product steam was routed to the nearby, now demolished, 185-N Hanford Generating Plant (HGP). The HGP was an electrical generation facility owned and operated by the Washington Public Power Supply System that produced electricity for use by the public. Construction of the 105-N Reactor Facility began in December 1959 and the reactor operated from 1963 through 1987.

On the south side of the 105-N facility is the 109-N Heat Exchanger Building, which shares a common wall with 105-N. Reactor primary coolant water from 105-N was circulated through to steam generators located in the 109-N Building. Steam from the steam generators was either routed to the HGP to generate electricity or sent to the dump condensers inside the 109-N Facility.

Deactivation of 105-N and 109-N was completed in 1998, which included shutdown and isolation of all operational systems, cleanup of most radiological and hazardous wastes, inventory of remaining hazardous materials, sealing access areas, and securing both buildings.

Interim Safe Storage (ISS) Facility Modifications

Structural modifications included removal of the fuel storage basin, ancillary support buildings, and most portions of the 105-N Building structure outside of the shield walls that surrounded the reactor. In addition, the heat exchanger building was removed up to the steam generator cells. This portion was left because of high radiation levels in the cells and structural integrity concerns with the reactor building because of the shared wall. The pressurizer and its surrounding building were left in place as part of the SSE and a new roof installed where it extends above the main roof of the 109-N Building.

The C Elevator pit, as shown on Figure 3-4 in Section 3.3, was stabilized by first filling it with low-density grout and then placing a concrete cap over it. The drain line that emptied into the lift station was drained and then cut and sealed with a mechanical blind flange near the west side of the SSE facility.

A new steel roof was installed over the remaining structures using the existing concrete shield walls as the "new" outside walls of the buildings to enclose both the reactor and heat exchanger buildings within a weather-protected structure. All existing siding was removed and new siding installed over structural-steel framing/supports. The roof panels of both buildings are constructed of a preformed aluminum-zinc alloy coated steel standing-seam roof system, 22 gauge. The siding panels are a 22 gauge preformed aluminum-zinc alloy coated steel siding system. The 109-N roof panels are laid over steel joists supported by a grid of steel beams and steel columns. The 105-N Building roof panels are laid over a grid of standard steel beams and purlins supported by steel columns. The original 105-N roof has been left in place and the remaining portion of the 109-N Building was demolished down to the 40-ft level.

A new access room was constructed on the southeast corner of the 109-N Building (See Figure 3-1 and 3-12 in Section 3.3) to provide entrance into the steam generator cells if required.

Penetrations into the shield walls were sealed to prevent animal and insect intrusion and water in-leakage into the final safe storage structure. Accessible loose contamination within the shield walls was either removed or fixed to the greatest extent possible. A remote monitoring system (for temperature and water intrusion), permanent power, and lighting were installed, as well as a provision for ventilation air exchange if required.

An entryway into the 105-N Reactor at ground level is located on the east side of the 105-N Building (Room 172) to allow access (See Figure 3-2 in Section 3.3). In addition, the steel cover plate at the entrance to Corridor No. 7, located adjacent to the reactor entrance at Room 172, could be unbolted and the security welds removed to have access to the discharge side of the reactor, if considered necessary. Security welds have been installed on all building shield doors to the Zone 1 areas for both 105-N and 109-N and the access door to Stair #6 in Room 172, El.(+)5'-0" inside 105-N, and the exterior access doors for both 105-N and 109-N facilities have been locked.

Figures 3-1 through 3-12 in Section 3.3 "105-N & 109-N Building Sketches" provide sketches showing the remaining layout at each floor level within the 105-N and 109-N Safe Storage Enclosure (SSE) facility.

Work on the 105-N Reactor Facility and the 109-N Heat Exchanger Building in the 100N Area at the DOE Hanford Site was performed under the following three (3) subcontracts:

1. Subcontract No. 0100N-SC-G0506: Asbestos and Hazardous Waste Removal for 105-N, 109-N, 1605NE, 105NA, and 1722N

2. Subcontract No. C00N508A00: Demolition and Safe Storage Enclosure (SSE) Construction for 105-N and 109-N Buildings
3. Subcontract No. J027807A00: 105-N and 109-N SSE West Side Final Construction

Final Room Turnover Verifications

After the scope of work within a room had been completed and prior to sealing the room, a final room turnover verification of the room was performed checking for the following items:

- Room systems in stable conditions
- Trash, debris, and combustibles removed
- Biological hazards removed and disinfected
- Final Radiological Surveys completed
- Final photo's or video completed
- Final inventory of hazardous materials left in place, if any
- Accessible Shield Doors- Radiological locks removed, and permanent security welds on doors completed

The team that was invited to participate in the final room turnover verifications included Washington Closure Hanford (Subcontract Technical Representative, Construction Subcontract Engineer, ISS Engineer, Environmental Protection Lead, Radiological Engineer), and a project representative from the U. S. Department of Energy and the Washington State Department of Ecology.

The results from the final room turnover for each room were documented on a Final Room Turnover Checklist which are shown in Section 3.2 and summarized in Section 3.1. The final building walk down and turnover for the 105-N/109-N SSE was completed July 23, 2012 with representatives from the U.S. Department Of Energy-Richland Office, Washington State Department of Ecology, WCH SM&U, and other members of the WCH project team to verify the SSE facility was complete.

Results

1. Summary of the results from the final room turnover verifications are shown in Section 3.1.
2. Results from individual room final room turnover verifications are shown in Section 3.2.
3. Sketches showing the layout at each floor level within the SSE facility are shown in Section 3.3.
4. Radiological survey results for the rooms and areas at final turnover are shown in Section 3.4.
5. Indexes for digital photos from final room turnover are shown in Section 3.5 and 3.6.

6. Prints of the digital photos from final room turnover are provided in Section 3.7 and 3.8.
7. CD's with digital photos from final room turnover are listed in Section 3.9.
8. CD's with digital photos from final room turnover are provided in Section 3.11.
9. DVD Video's from the final room turnover are listed in Section 3.10.
10. DVD Video's from the final room turnover are provided in Section 3.12.

3.0 ATTACHMENTS

3.1 105-N & 109-N SSE FINAL ROOM TURNOVER SUMMARY LIST

105N/109N SSE
Final Room Turnover Summary List

109N Building				
Room No.	**Description**	**Date Signed**	**Rad Survey**	**Hazardous Material Left in-Place/Comments**
103	Water Qual. Lab, El. 0'-0"	05/17/11	RSR-100ISS-10-0697 RSR-100ISS-11-0164	Two (2) Lead Blankets in NE corner of room/No other issues
104	Change Rm., El. 0'-0"	05/17/11	RSR-100ISS-10-0697 RSR-100ISS-11-0164	No Materials/No Issues
105	Grab Sample Rm., El. 0'-0"	05/17/11	RSR-100ISS-10-0697 RSR-100ISS-11-0164	No Materials/No Issues
106	RAD Chem. Lab, El. 0'-0"	05/17/11	RSR-100ISS-10-0697 RSR-100ISS-11-0164	No Materials/No Issues
208	Non-RAD Sampling & Chem. Lab, EL. 12'-8 1/2"	09/07/10	RSR-100ISS-10-0725	No Materials/No Issues
307	Non-RAD Sampling Rm., El. 25'-0 1/2"	09/07/10	RSR-100ISS-10-0725	No Materials/No Issues
Access Bldg	109N Access BLDG., EL. (-) 16'-0"	03/15/12	RSR-100N-11-2333	No Materials/No Issues
Roof	109N SSE, EL. 40'-0"	03/15/12	RSR-100ISS-11-0452	No Materials/No Issues
Roof	Pressurizer, EL. 84'-0"	04/14/11	RSR-100ISS-11-0104	No Materials/No Issues
Stair 7	El. 0'-0" to 24'-0"	09/07/10	RSR-100ISS-10-0725	No Materials/No Issues
105N Building				
Room No.	**Description**	**Date Signed**	**Rad Survey**	**Hazardous Material Left in-Place/Comments**
4	Ball Control Rm., El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	No Materials/No Issues
5	Rupture Monitor Rm., El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	Two (2) Lead Blankets in SE corner - Fourteen (14) Sliding Lead Doors along south wall - 32' x 3' x 5" deep trough full of Lead Shot above Lead Doors along south wall
7	Equip. Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Materials/No Issues
8	Elec. Equip. Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Materials/No Issues
9	Battery Rm., El. (-)15'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Materials/No Issues
11	Fast Cart Tunnel, El.(-)19'-0"	05/14/12	N/A	No Materials/No Issues
23	"C" Elevator Pit, El. (-)16'-0'	11/14/11	RSR-100ISS-11-0556	Fourty five (45) Lead Blankets left hanging over Reactor front face - Three Lead Blankets left on west end of floor grading - Pit de-watered and filled with grout to top of pit wall (0' 0" El.)
29	"W" Elevator Rm. (Front Face), El. 0'-0"	11/09/11	RSR-100ISS-11-0457	No Materials/No Issues
35	Pipe Tunnel (South End), El. (-)21'-0"	10/28/10	RSR-100ISS-10-0986 RSR-100ISS-10-1032	No Materials/No Issues
37	Rupture Monitor Rm., El. (-)10'-0"	10/28/10	RSR-100ISS-10-0970	Fourteen (14) Lead sliding doors along south wall - 32' x 3' x 5" deep trough full of Lead Shot above lead doors along south wall
41	El. (-)21'-0" Included with Room 35	10/28/10	RSR-100ISS-10-0986 RSR-100ISS-10-1032	No Materials/No Issues
*170	Outer Rod Rm. East Side, El. 0'-0" to 28'-0"	02/22/11	RSR-100ISS-06-0065 RSR-100ISS-06-0069 RSR-100ISS-06-0070 RSR-100ISS-06-0071 RSR-100ISS-06-0084 RSR-100ISS-06-0109 RSR-100ISS-08-0615	Florescent lights and ballasts all levels - residual oil and absorbant in HCR reservior and rod racks - Approx. 200 LF of Asbestos covered 12" pipe
*171	Inner Rod Rm. East Side, El. 0'-0" to 28'-0"	02/22/11	RSR-100ISS-06-0086	Florescent lights and ballasts all levels - tubing with spray-on mastic 1st level south side - Approx. 100LF Asbestos covered 2' x 2' HVAC duct 1st and 2nd level

105N/109N SSE
Final Room Turnover Summary List

105N Building				
Room No.	**Description**	**Date Signed**	**Rad Survey**	**Hazardous Material Left in-Place/Comments**
172	El. 5'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
173	Ready Rm., El. 5'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
174	Blue Tool Rm., El. 5'-0'	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
175	Observation Rm., El. 0'-0"	06/12/12	RSR-100ISS-12-0062 RSR-100ISS-12-0070	No Materials/No Issues
*176	Outer Rod Rm. West Side, El. 0'-0" to 28'-0"	02/22/11	RSR-NRx-98-0258 RSR-100ISS-06-0073	Florescent lights and ballasts all levels - residual oil and absorbant in HCR reservior and rod racks - Approx. 200 LF of Asbestos covered 12" pipe
*177	Inner Rod Rm. West Side, El. 0'-0" to 28'-0"	02/22/11	RSR-NRx-98-0258 RSR-100ISS-06-0078	south side - Approx. 100LF Asbestos covered 2' x 2' HVAC duct 1st and 2nd level
301	Elec. Rm., El. 16'-6"	03/15/12	RSR-100N-12-0046	No Materials/No Issues
302	El. 16'-6"	03/15/12	RSR-100N-12-0046	No Materials/No Issues
401	Remote Equip. Rm., El. 28'-3"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
402	El. 28'-3"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
501	Elec. Rm., El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
502	El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
503	(Partial), El. 40'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
507	Outlet Valve Oper. Gallery, El. 43'-6"	06/12/12	RSR-100ISS-12-0062 RSR-100ISS-12-0070	No Materials/No Issues
520	(Partial), El. 51'-0"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
601	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
602	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
603	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
606	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
607	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
609	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
610	(Partial), El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
611	El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
612	Air Lock, El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
613	Air Lock, El. 60'-6"	03/15/12	RSR-100N-11-2334	No Materials/No Issues
Corridor 3	El. (-)16'-0"	04/21/10	RSR-100ISS-10-0327	No Materials/No Issues
Corridor 4	(South End), El. (-)10'-0"	10/28/10	RSR-100ISS-10-0970	No Materials/No Issues
Corridor 7	El. 5'-0"	06/12/12	RSR-100ISS-12-0062 RSR-100ISS-12-0070	No Materials/No Issues
Corrid. 22	(South End), El. 0'-0"	08/02/12	RSR-100ISS-10-1253	No Materials/No Issues
R Elevator	Elevator Equip Rm., El. (-)24'-0"	03/05/12	RSR-100ISS-10-0326 RSR-100N-11-2333	No Materials/No Issues
Roof	105N SSE Main Roof, EL. 70'-0"	11/14/11	RSR-100ISS-11-0542	No Materials/No Issues
Roof	105N W. Rod Rm. SSE Roof, EL. 40'-0"	11/09/11	RSR-100ISS-11-0436	No Materials/No Issues
Stair 6	El. (-)24'-0" to 40'-0"	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
Stair 6A	El. 40'-0" to 105N Roof	03/15/12	RSR-100ISS-11-2333	No Materials/No Issues
Stair 8	El. 5'-0" to 43'-6"	06/12/12	RSR-100ISS-12-0062 RSR-100ISS-12-0070	No Materials/No Issues
	Note:			
	1. * Rooms Not Included In This Project. Material Descriptions And Surveys Provided For Information.			

3.2 105-N & 109-N SSE FINAL ROOM TURNOVER CHECKLISTS

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.103/Water Quality Lab **Elevation** 0'0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 05/04/2011
Hazardous Materials Left in Place:
1) Two (2) Lead blankets in NE corner of room
RAD Surveys: RSR-100 ISS-11-0164
RSR-100 ISS-10-0697

CD 3/22/12

These items have been verified by the following:

D. Keller
WCH/CSE print & sign

5/17/11
date

Joiz Delaney
WCH/Engineering print & sign

5/17/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.104/Change Room **Elevation** 0'0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 05/04/2011 No issues
RAD Surveys: RSR-100 ISS-11-0164
RSR-100 ISS-10-0697

QD 3/22/12

These items have been verified by the following:

Don Killer
WCH/CSE print & sign

5/17/11
date

Joe Delaney
WCH/Engineering print & sign

5/17/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.105/Grab Sample Rm. **Elevation** 0'0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 05/04/2011 No issues
RAD Surveys: RSR-100 ISS-11-0164
RSR-100 ISS-10-0697

gp 3/22/12

These items have been verified by the following:

Don Keller Don Keller 5/17/11
WCH/CSE print & sign date

Joe Delaney Joe Delaney 5/17/11
WCH/Engineering print & sign date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.106/RAD Chem. Lab **Elevation** 0'0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 05/04/2011 No issues
RAD Surveys: RSR-100 ISS-11-0164
RSR-100 ISS-10-0697

4/03/22/12

These items have been verified by the following:

D. Kellar Dick Q — 5/17/11

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 5/17/11

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.208/Non-Rad Chem. Lab **Elevation** ~~15'-0"~~ 12'-8 1/2" **BLDG** 105N
GD 3/20/12

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 09/01/2010 No Issues
RAD SURVEY : RSR-100ISS-10-0725 GD 3/22/12

These items have been verified by the following:

Don Keller
WCH/CSE print & sign

09-07-10
date

Joe Delaney mam 9/7/10
WCH/Engineering print & sign

09/7/10
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.307/Non-Rad Sample Rm. **Elevation** 25'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 09/01/2010 No Issues
RAD SURVEY: RSR-100ISS-10-0725

09/22/12

These items have been verified by the following:

Don Keller
WCH/CSE print & sign

09-07-10
date

Joe Delaney mam 9/7/10
WCH/Engineering print & sign

9/7/10
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 109N Access Building **Elevation** (-) 16'-0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD Locks removed and permanent welding of door complete

COMMENTS

Area inspection and Final photos taken 2-15-2012
No Issues
Rad Survey RSR-100ISS-11-2333

These items have been verified by the following:

Bob Lars Bob Lars — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 109 Bldg Under SSE Roof. **Elevation** 40' 0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 07/07/11. Following structural completion no issues.
New lighting system installation completed 11-22-2011
Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100ISS-11-0452

These items have been verified by the following:

Bob Lyons
WCH/CSE print & sign

3/15/12
date

Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Pressurizer Roof. **Elevation** 84' 0" **BLDG** 109N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 04/06/11. No issues
RAD SURVEY: RSR-100 ISS-11-0104

AD 3/22/12

These items have been verified by the following:

Don Kelly
WCH/CSE print & sign

4/14/11
date

JOE DELANEY
WCH/Engineering print & sign

4/14/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Stair 7 **Elevation** 0'0" to 25'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 09/01/2010 No Issues
RAD SURVEY: RSR-100 ISS-10-0725

QD 3/22/12

These items have been verified by the following:

Don Kuller Don K. QD
WCH/CSE print & sign

09-07-10
date

Joe Delaney mam 9/7/10
WCH/Engineering print & sign

9/7/10
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.4/Ball Control Rm. **Elevation** (-)16'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/14/2010 No Issues
RAD Survey: RSR-100 ISS-10-0327

03/22/12

These items have been verified by the following:

D. C Keller D C K
WCH/CSE print & sign — 4/21/10 date

Joe Delaney / Joe Delaney
WCH/Engineering print & sign — 4/21/10 date

MA Mihalic / MA Mihalic — 4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.5/Rupture Monitor Rm. **Elevation** (-)16'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/14/2010
Hazardous Materials Left In Place:
1) Two (2) lead blankets in SE corner of room.
2) Sliding lead doors along south wall. (14 EACH) GD 3/20/12
3) 32'X3'X5" deep trough full of lead shot above lead doors along south wall.
RAD SURVEY: RSR-100 ISS-10-0327 GD 3/22/12

These items have been verified by the following:

Dan Keller
WCH/CSE print & sign

4/21/10
date

Joe Delaney
WCH/Engineering print & sign

4/21/10
date

MA Mihalic/manual
4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.7/Equip.Rm. **Elevation** (-)15'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/13/2010 Note: Pourback at east wall in progress final video to be taken at later date.
INSPECTION COMPLETED & FINAL PHOTO'S TAKEN 2/15/12. NO ISSUES.
RAD SURVEY: RSR-100ISS-10-0326; RSR-100N-11-2333

GPD 3/5/12

These items have been verified by the following:

Dan Keller
WCH/CSE print & sign

4/21/10 3-5-12
date

Joe Delaney
WCH/Engineering print & sign

4/21/10 GPD 3/5/12
date

MA Mihalic/ma mihalic

4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.8/Elect.Equip.Rm. **Elevation** (-)15'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/13/2010 Note: Pourback at east wall in progress final video to be taken at later date.
INSPECTION COMPLETED & FINAL PHOTOS TAKEN 2/15/12. NO ISSUES. QD 3/22/12
RAD SURVEY: RSR-100 ISS-10-0326; RSR-100N-11-2333 QD 3/22/12

These items have been verified by the following:

Don Keller
WCH/CSE print & sign

4/21/10 3-5-12
date

Joe Delaney/Joe Delaney
WCH/Engineering print & sign
MA Mihuc/mamuhal

4/21/10 QD 3/5/12
date
4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.9/Battery Rm. **Elevation** (-)15'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
___	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room completed 04/13/2010
Biological hazards to be removed – mice droppings on room floor
Note: Pourback at east wall in progress final video to be taken at later date.
INSPECTION COMPLETED & FINAL PHOTO'S TAKEN 2/15/12. NO ISSUES. 3/22/12
RAD SURVEY: RSR-100 ISS-10-0326; RSR-100N-11-2333 3/22/12

These items have been verified by the following:

Don L Keller
WCH/CSE print & sign

4/21/10 3-5
date

Liz Delaney/Liz Delaney
WCH/Engineering print & sign

4/21/10 3/9/12
date

MA Mihalic/MA Mihalic

4/21/10

Washington Closure Hanford
105N/109N SSE
Subcontract No.: J027807A00

Final Room Turnover Documentation

Date: 05/10/12

Area: 100N

Building: 105N

Room No./Description: Rm.#11 Fast Cart Tunnel (Discharge Tunnel)
Elevation: (-)19'-0"

Location: West Side of 105N

Observation Performed and Results:
On 05/10/12, following 105N Fuel Storage Basin (FSB) structure removal, a visual observation was performed of the Fast Cart Tunnel. The observation was made through an opening in the west end of the tunnel with the use of a digital video cassette recorder and camera with built-in lights (Equipment- Sony Digital Video Cassette Recorder Model #GV-D1000/D1000E and Camera). Video provided a view of the floor of the tunnel which is covered with approximately 3'-0" of grout (El. (-)16') from FSB pre-demolition preparation, the tunnel walls, and the top of tunnel grating at the west end of tunnel (Area of View- west wall to approximately 10' east from west end of tunnel). There was some concrete/grout debris observed inside the tunnel opening. The fast cart tunnel door at the west end of tunnel was observed to be open.

The floor of the Fast Cart Tunnel was verified to be in a dry condition.

These observations were performed by the following:

Bob Lewis 5-14-12
WCH/CSE Sign & Date

Daryl Schilperoort 5-14-2012
WCH/STR Sign & Date

Joe Delaney 5/14/2012
WCH/Engineer Sign & Date

John Comer 5/14/12
WCH/Engineer Sign & Date

Thomas Yamamoto 5-14-12
WCH/Engineer Sign & Date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 105N C Elevation Pit (Rm 23) **Elevation** -16' 0" **BLDG** 105N
QD 3/22/12

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 10/23/11.
Hazardous material left in place near C elevator pit
1) 45 Lead blankets left hanging over reactor front face
2) 3 Lead blankets left on west end walk grating
Note – C elevator pit de-watered and filled with grout to top
of pit walls (approximately El. 0'-0")
RAD SURVEY: RSR-100 ISS-11-0556 QD 3/22/12

These items have been verified by the following:

Don L Keller Don L Keller — 11/14/11
WCH/CSE print & sign — date

JOE DELANEY Joe Delaney — 11/14/11
WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 105N W Elevator Area (Front Face) (Rm 29) **Elevation** 0' 0" **BLDG** 105N 4D 3/22/12

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 08/25/11. No issues
RAD SURVEY: RSR-100 ISS-11-0457 4D 3/22/12

These items have been verified by the following:

Dan Kuhn
WCH/CSE print & sign

11/9/11
date

Joe Delaney
WCH/Engineering print & sign

11/9/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.35/Pipe Tunnel South End) **Elevation** (-)21'0" **BLDG** 105N
AND Rm.41 9D3122112

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 10/26/2010 No Issues
RAD Surveys: RSR-100ISS-10-0986 9D3122112
RSR-100ISS-10-1032

These items have been verified by the following:

D. Keller
WCH/CSE print & sign — 10/28/10 date

WCH/Engineering print & sign — 10/28/10 — 10/28/10 date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.37/RuptureMonitorRm **Elevation** (-)10'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 10/25/2010 No Issues
14 Lead sliding doors along south wall to remain
32'X3'X5" deep trough full of lead shot above lead doors along south wall.
RAD Survey: RSR-100ISS-10-0970

GD 3/22/12

These items have been verified by the following:

Don Keller
WCH/CSE print & sign

10/28/10
date

Joe Delaney for Manny mam
WCH/Engineering print & sign 10/28/10

10/28/10
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.170/Left Outer Rod Rm.**Elevation** 0'0"-28'0" **BLDG** 105N
East Side

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

See Page 2 for Additional Comments

RAD SURVEYS: RSR-100 ISS-06-0065 03/22/12
RSR-100 ISS-06-0069
RSR-100 ISS-06-0070
RSR-100 ISS-06-0071
RSR-100 ISS-06-0084
RSR-100 ISS-06-0109
RSR-100 ISS-08-0615

These items have been verified by the following:

Don Keller — 2-22-11
WCH/CSE print & sign — date

JOE DELANEY — hcam 2/22/11 — 2/22/11
WCH/Engineering print & sign — date

Rm.No./Description #170 Left (East) Outer Rod Room
Elev. 0'-0"
Bldg. 105N

COMMENTS (Continued):

1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
3. Material remaining in room:
    A. Florescent lights [Loction- All levels].
    B. Florescent light balasts [Location- All levels].
    C. Horizontal Control Rod(HCR) hydraulic oil reservoir- Residual hydraulic oil with oil dry [Location- 1st level].
    D. HCR system- Residual hydraulic oil in HCR tracks with oil dry [Loction- 2nd to 4th levels].
    E. Asbestos insulation on pipe <12" diameter- approximately 200 LF [Location- 1st to 4th levels].

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.171/Left Inner Rod Rm. **Elevation** 0'0"-28'0" **BLDG** 105N
East Side

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

See Page 2 for Additional Comments
RAD Survey: RSR-100ISS-06-0086

03/22/12

These items have been verified by the following:

Don Kuhn — 2-22-11
WCH/CSE print & sign — date

Jazz Delaney — mam — 2/22/11
WCH/Engineering print & sign — 2/22/11 — date

Rm.No./Description #171 Left (East) Inner Rod Room
Elev. 0'-0"
Bldg. 105N

COMMENTS (Continued):

1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
3. Material remaining in room:
    A. Florescent lights [Loction- All levels].
    B. Florescent light balasts [Location- All levels].
    C. Small tubing with asbestos spray-on flame mastic insulation [Location- 1st Level, South side].
    D. Asbestos insulation on HVAC duct (2' x 2')- approximately 100 LF [Location- 1st and 2nd Level, south/southeast side].

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm. 172 **Elevation** 5'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final photos taken on 2-15-2012
No Issues
Rad Survey RSR-100N-11-2333

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.173 Ready Rm. **Elevation** 5'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
Rad Survey RSR-100N-11-2333

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12
WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12
WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.174 Blue Tool Rm. **Elevation** 5'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-11-2333

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # J027807A00
Final Room Turnover Checklist

Room # / Discription Room 175 **Elevation** 0'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos Completed 06-05-2012
No Issues
RAD Survey RSR-100ISS-12-0062 and RSR-100ISS-12-0070

These items have been verified by the following:

Bob Lewis / [signature]
WCH/CSE print & sign

6-12-12
date

DZ Delaney [signature]
WCH/Engineering print & sign

6/12/2012
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.176/RightOuter Rod Rm.**Elevation** 0'0"-28'0" **BLDG** 105N
West Side

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

See Page 2 for Additional Comments
RAD Surveys: RSR- NR_x-98-0258
RSR- 100 ISS-06-0073

QD 3/22/12

These items have been verified by the following:

Don Kuhlen Derek Q — 2-22-11

WCH/CSE print & sign — date

Joe Delaney mam — ~~2/21/11~~ 2/22/11

WCH/Engineering print & sign 2/22/11 — date QD 4/22/11

Rm.No./Description #176 Right (West) Outer Rod Room
Elev. 0'-0"
Bldg. 105N

COMMENTS (Continued):

1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
3. Material remaining in room:
    A. Florescent lights [Loction- All levels].
    B. Florescent light balasts [Location- All levels].
    C. Horizontal Control Rod(HCR) hydraulic oil reservoir- Residual hydraulic oil with oil dry [Location- 1st level].
    D. HCR system- Residual hydraulic oil in HCR tracks with oil dry [Loction- 2nd to 4th levels].
    E. Asbestos insulation on pipe <12" diameter- approximately 200 LF [Location- 1st to 4th levels].

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.177/Right Inner Rod Rm. **Elevation** 0'0"-28'0" **BLDG** 105N
West Side

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
X	___	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

See Page 2 for Additional Comments
RAD SURVEYS: RSR-NRx-98-0258
RSR-100ISS-06-0078

QA 3/22/12

These items have been verified by the following:

Don Kullen — 2-22-11
WCH/CSE print & sign — date

Joe Delaney — 2/22/11
WCH/Engineering print & sign — date

Rm.No./Description #177 Right (West) Inner Rod Room
Elev. 0'-0"
Bldg. 105N

COMMENTS (Continued):

1. Room was not included in project work scope but entries were made and room conditions are documented here for information.
2. Room layout included a bottom floor on concrete slab at Elevation 0'-0" and three(3) additional levels above on steel grating platforms.
3. Material remaining in room:
    A. Florescent lights [Loction- All levels].
    B. Florescent light balasts [Location- All levels].
    C. Small tubing with asbestos spray-on flame mastic insulation [Location- 1st Level, South side].
    D. Asbestos insulation on HVAC duct (2' x 2')- approximately 100 LF [Location- 1st and 2nd Level, south/southwest side].

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.301 Electric Rm. **Elevation** 16'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-12-0046

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

3-15-12
date

Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.302 **Elevation** 16'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
NA	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR 100N-12-0046

These items have been verified by the following:

Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.401 Remote Equip. Rm. **Elevation** 28'-3" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

3-15-12
date

Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.402 **Elevation** 28'-3" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Dizlanby Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.501 Electric Rm. **Elevation** 40'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

3-15-12
date

JOE DELANEY Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.502 **Elevation** 40'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob L — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.503 (Partial) **Elevation** 40'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # J027807A00
Final Room Turnover Checklist

Room # / Discription Room 507 **Elevation** 43'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos Completed 06-05-2012
No Issues
RAD Survey RSR-100ISS-12-0062 and RSR-100ISS-12-0070

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

6-12-12
date

Joe Delaney
WCH/Engineering print & sign

6/12/2012
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.520 (Partial) **Elevation** 51'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12
WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12
WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.601 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Wis Bob Wis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.602 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR 100N-11-2334

These items have been verified by the following:

Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.603 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.606 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lloo Bob Lloo — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.607 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.609 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob Lewis — WCH/CSE print & sign — 3-15-12 date

Joe Delaney Joe Delaney — WCH/Engineering print & sign — 3/15/12 date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.610 (Partial) **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis

WCH/CSE print & sign

3-15-12
date

Joe Delaney

WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.611 **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

3-15-12
date

Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.612 Air Lock **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Rm.613 Air Lock **Elevation** 60'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-7-2012
No Issues
RAD Survey RSR-100N-11-2334

These items have been verified by the following:

Bob Ross Rob Lee — 3-15-12
WCH/CSE print & sign — date

JOE DELANEY Joe Delaney — 3/15/12
WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Corridor 3.**Elevation** (-)16'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/14/2010 No Issues
RAD Survey: RSR-100 ISS-10-0327

gp 5/22/12

These items have been verified by the following:

Do-L Keller _____ 4/21/10
WCH/CSE print & sign date

Joe Delaney _____ 4/21/10
WCH/Engineering print & sign date

MA Miliacic/MQ Michael 4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Corridor 4/(South End) **Elevation** (-)10'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 10/25/2010 No Issues
RAD SURVEY: RSR-100 ISS-10-0970

03/22/12

These items have been verified by the following:

Don Keller
WCH/CSE print & sign

10/28/10
date

Joe Delaney mam
WCH/Engineering print & sign 10/28/10

10/28/10
date

Washington Closure Hanford
105N/109N SSE
Contract # J027807A00
Final Room Turnover Checklist

Room # / Discription Corridor #7 **Elevation** 5'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos Completed 06-05-2012
No Issues
RAD Survey RSR-100ISS-12-0062 and RSR-100ISS-12-0070

These items have been verified by the following:

Bob Lewis / Bob Lewis — WCH/CSE print & sign — 6-12-12 date

Joe Delaney Joe Delaney — WCH/Engineering print & sign — 6/12/2012 date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Corridor 22/(South End) **Elevation** 0'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
X	___	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection done on 07-17-2012
No Issues
RSR-100ISS-12-0173

These items have been verified by the following:

WCH/CSE print & sign — 8/2/12 date

WCH/Engineering print & sign — for Joe Delaney — 8/2/12 date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Bottom Stair 6/R Elevator **Elevation** (-)24'0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Room inspected 04/13/2010 Note: Pourback at east wall in progress final video to be taken at later date.
INSPECTION COMPLETED & FINAL PHOTOS TAKEN 2/15/12. NO ISSUES.
RAD SURVEY: RSR-100ISS-10-0326; RSR-100N-11-2333

QPD 3/5/12

These items have been verified by the following:

Don Keller Don Keller — 4/21/10 — 3-5-12
WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 4/21/10 — QPD 3/5/12
WCH/Engineering print & sign — date
MA Mihalic / MA Mihalic — 4/21/10

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 105N Main Roof Under SSE Roof **Elevation** 70' 0"
BLDG 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 9/8/11. No issues
Note – No permanent access to this level
RAD Survey : RSR-100 ISS-11-0542

QD 3/22/12

These items have been verified by the following:

Don L. Keller
WCH/CSE print & sign

11/14/11
date

Joe Delaney
WCH/Engineering print & sign

11/14/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description 105N West Rod Roof Under SSE Roof. **Elevation** 40' 0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	N/A	Final inventory of hazardous materials left in place by WCH
___	N/A	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Inspection completed on 08/01/11. No issues
RAD Survey: RSR-100155-11-0436 4/03/22/12

These items have been verified by the following:

Dan Keller
WCH/CSE print & sign

11/9/11
date

Joe Delaney
WCH/Engineering print & sign

11/9/11
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Stair 6 **Elevation** (-)24'-0" to 40'-0" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-2333

These items have been verified by the following:

Bob Lewis
WCH/CSE print & sign

3-15-12
date

Joe Delaney
WCH/Engineering print & sign

3/15/12
date

Washington Closure Hanford
105N/109N SSE
Contract # C00N508A00
Final Room Turnover Checklist

Room # / Description Stair 6A **Elevation** 40'-0" to 105N Roof **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos taken on 2-15-2012
No Issues
RAD Survey RSR-100N-11-2333

These items have been verified by the following:

Bob Lewis Bob Lewis — 3-15-12

WCH/CSE print & sign — date

Joe Delaney Joe Delaney — 3/15/12

WCH/Engineering print & sign — date

Washington Closure Hanford
105N/109N SSE
Contract # J027807A00
Final Room Turnover Checklist

Room # / Discription Stair #8 **Elevation** 5'-0" to 43'-6" **BLDG** 105N

This room prior to sealing or final turnover has been checked for the following:

Completed	/ NA	
X	___	Room systems in stable conditions
X	___	Trash, debris, and combustibles removed
X	___	Biological hazard removed and disinfected
X	___	RAD Survey completed (either existing or updated survey)
X	___	Final photo's or video by WCH
___	NA	Final inventory of hazardous materials left in place by WCH
___	NA	Accessible Shield Doors- polyurethane foam removed, RAD locks removed and permanent welding of door complete

COMMENTS

Final Inspection and Final Photos Completed 06-05-2012
No Issues
RAD Survey RSR-100ISS-12-0062 and RSR-100ISS-12-0070

These items have been verified by the following:

Bob Lewis Bob Lewis — 6-12-12
WCH/CSE print & sign — date

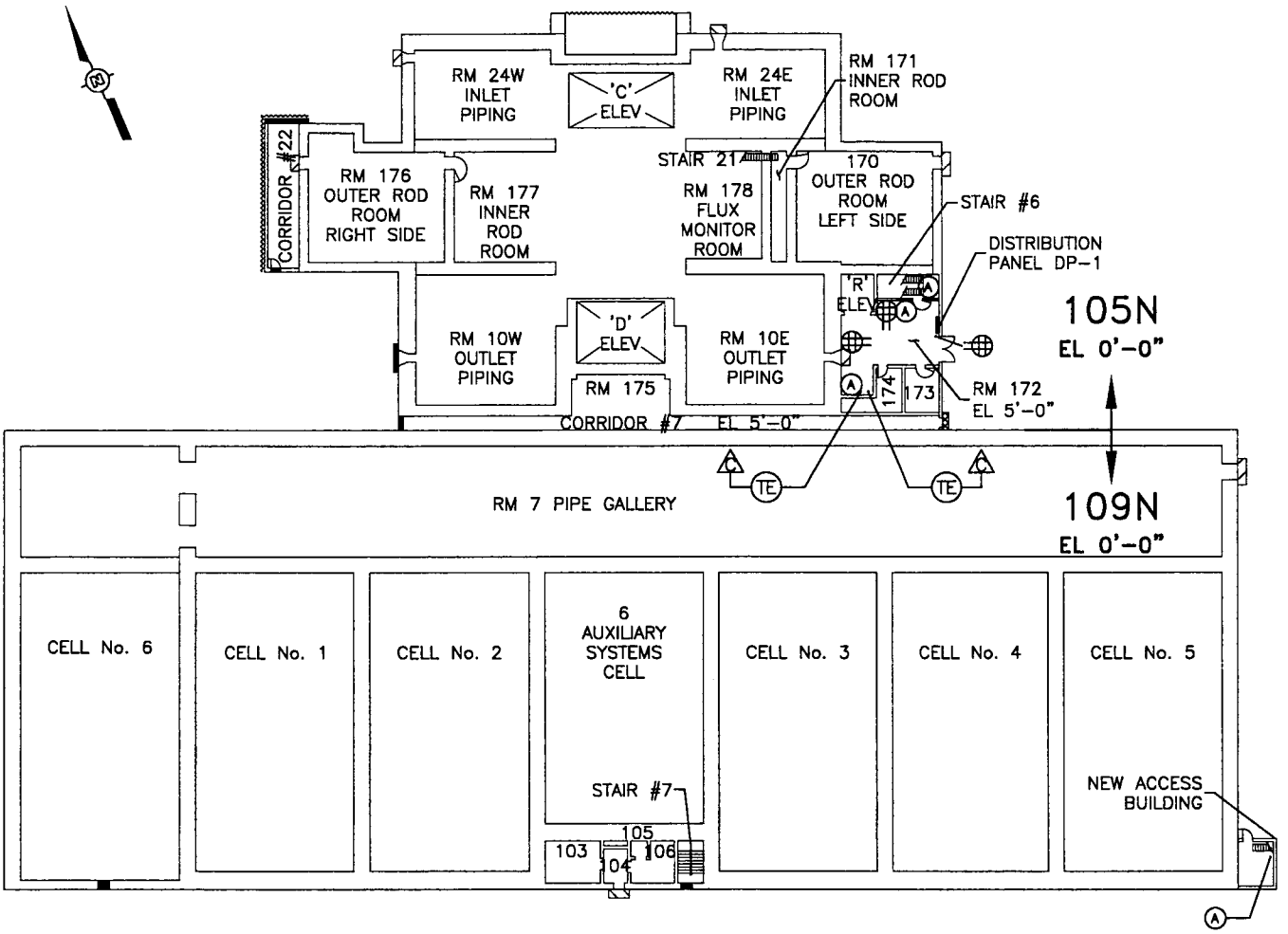
Joe Delaney Joe Delaney — 6/12/2012
WCH/Engineering print & sign — date

3.3 105-N & 109-N BUILDING SKETCHES

Note- Room 208 at El.12'-8 ½" and Room 307 at El.25'-0 ½" in 109-N are not shown in the sketches but these rooms are located above Water Quality Lab Rooms 103 to 106 at the south side of the 109-N Building.

FIGURE 3-1. SURVEILLANCE AND INSPECTION ROUTE (105N/109N PLAN VIEW, ELEVATION 0'-0")

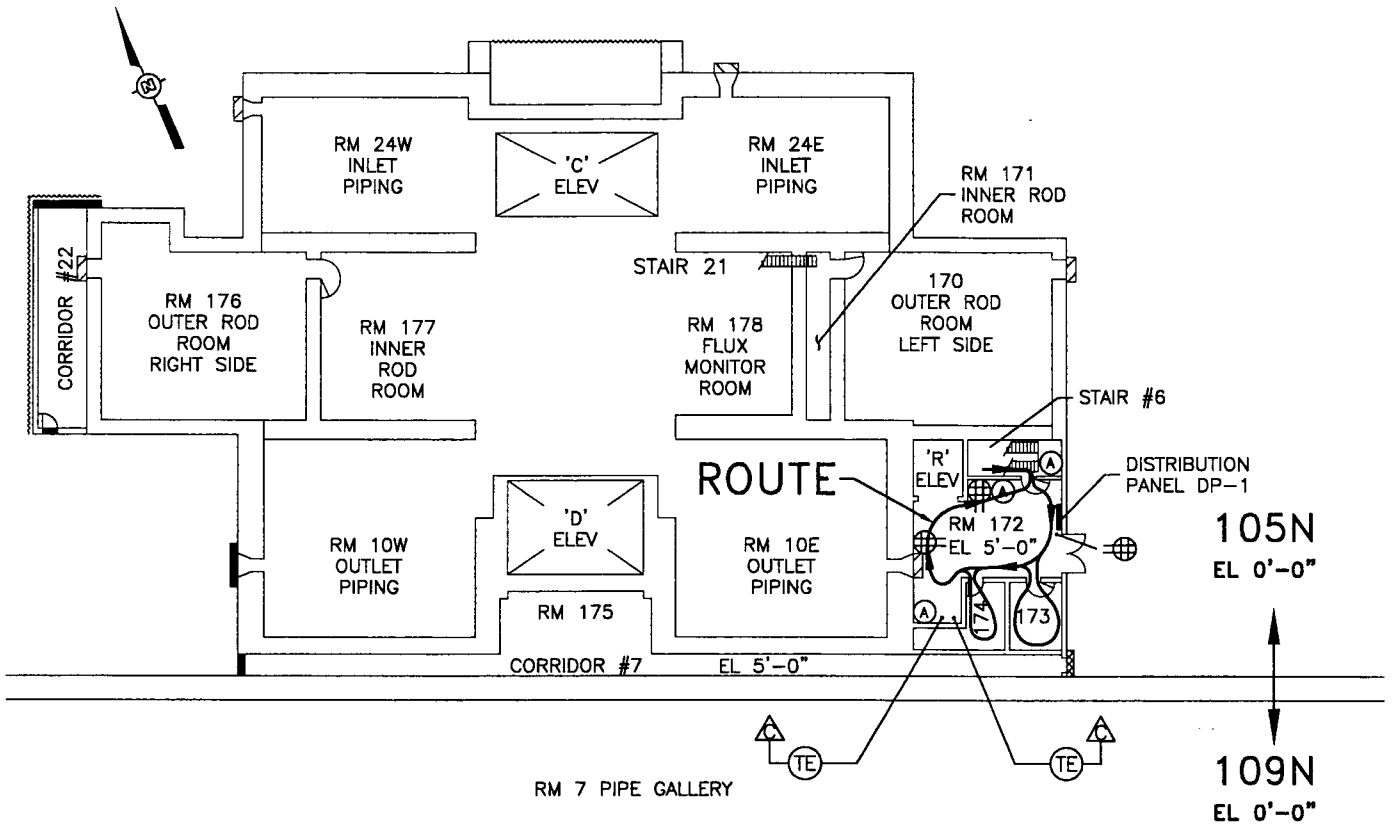
105N/109N
(ELEVATION 0'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

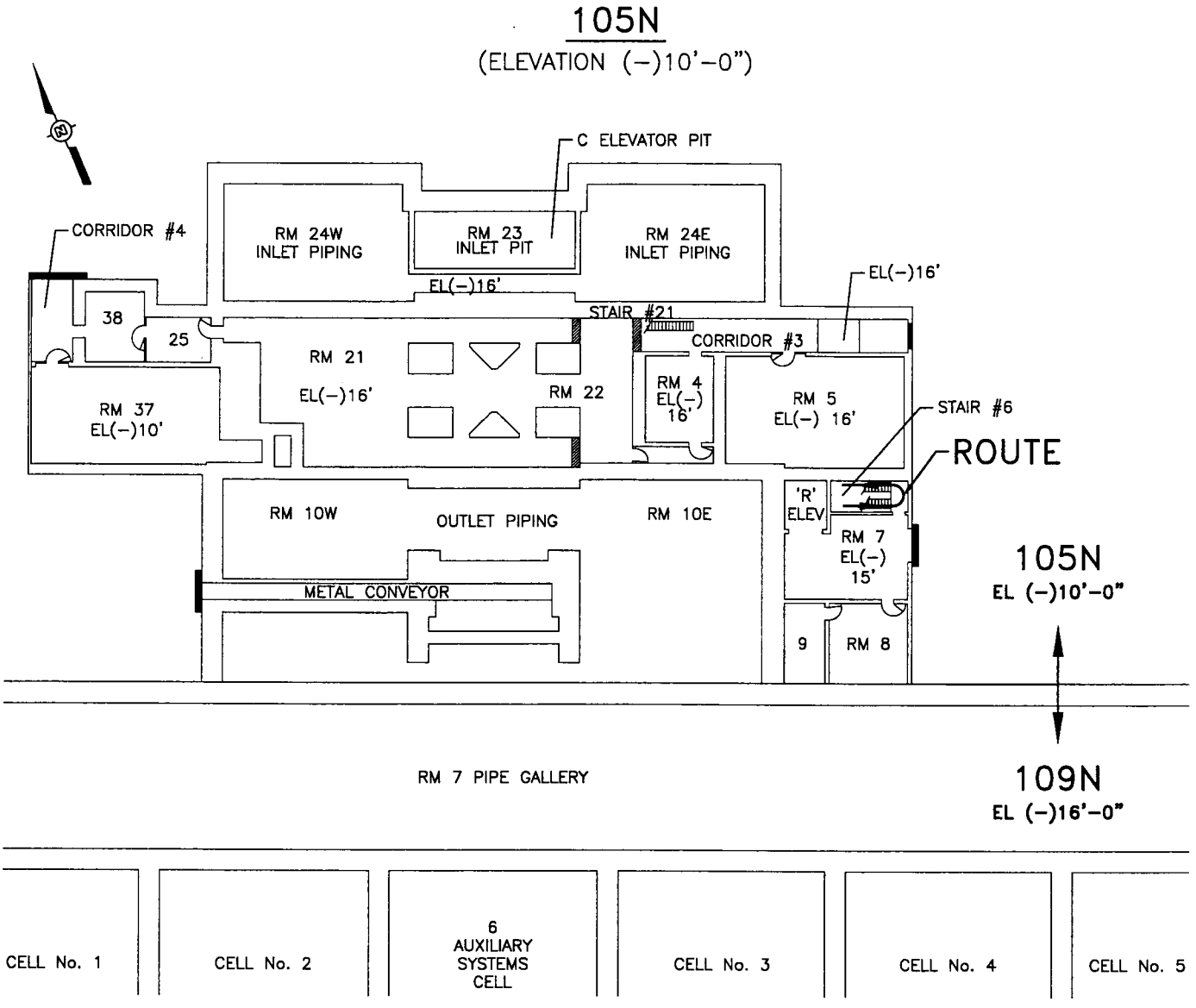
FIGURE 3-2. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 0'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

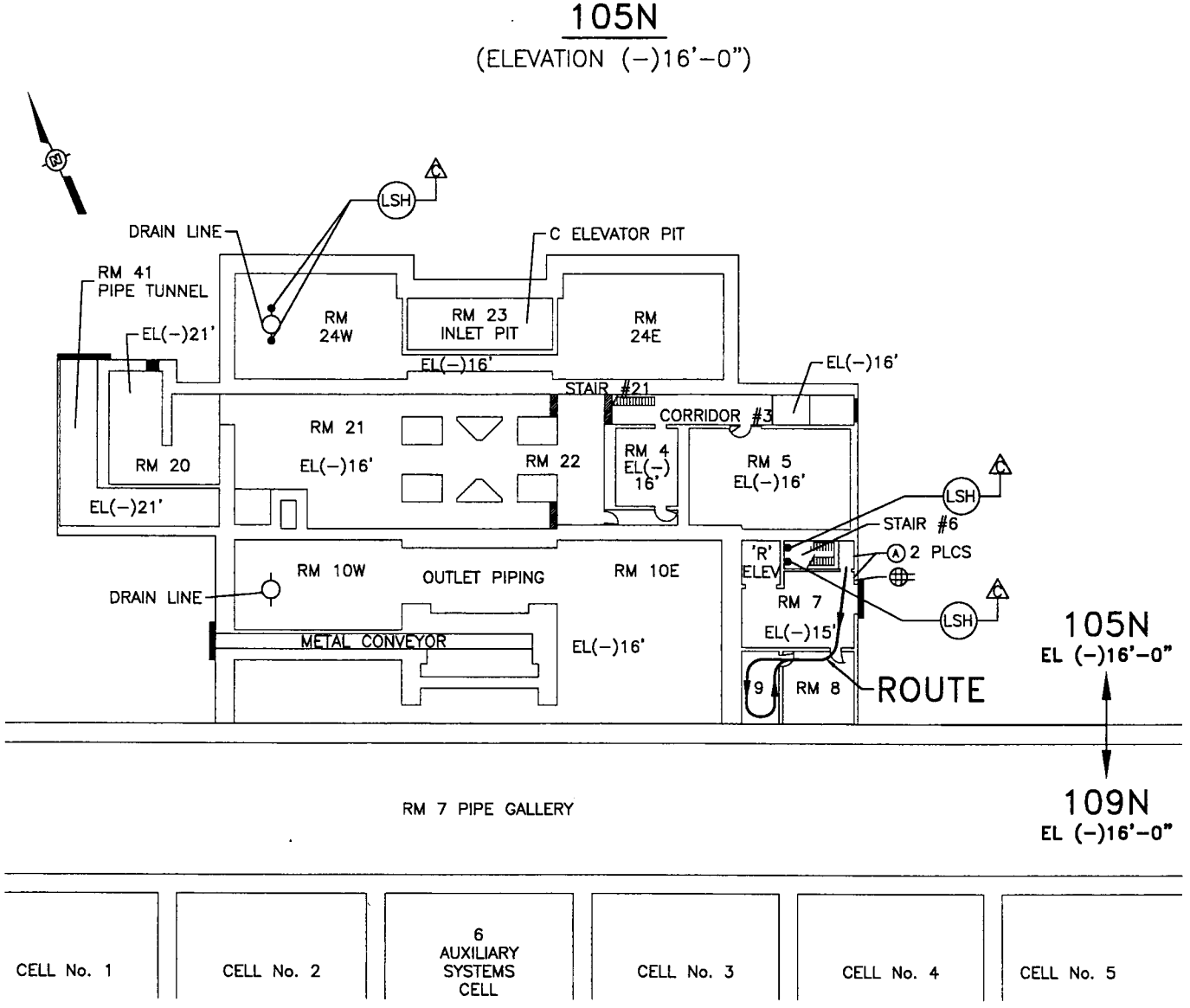
FIGURE 3-3. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)10'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

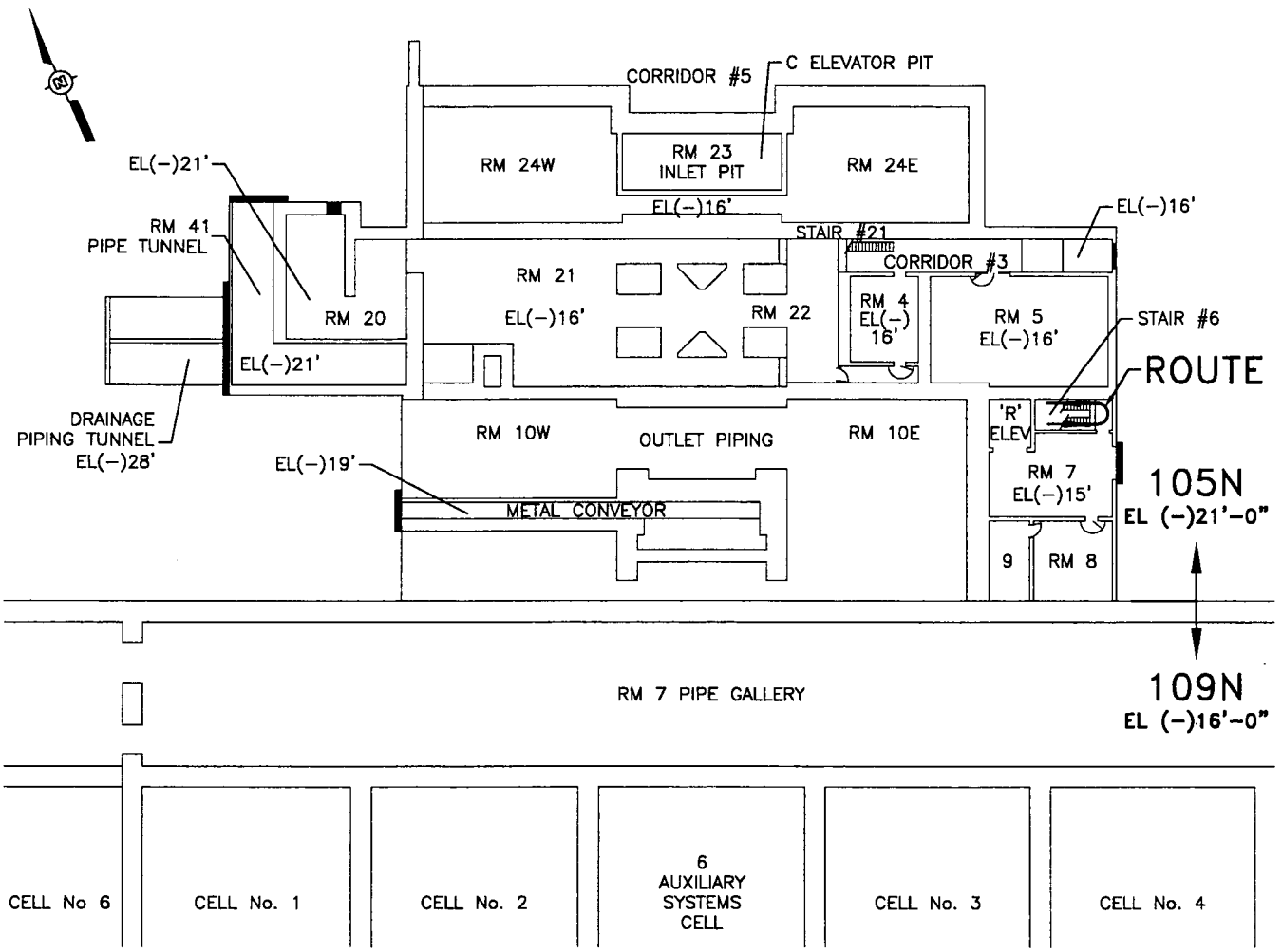
FIGURE 3-4. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)16'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- LSH — LEVEL SWITCH
- TE — TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- A — METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

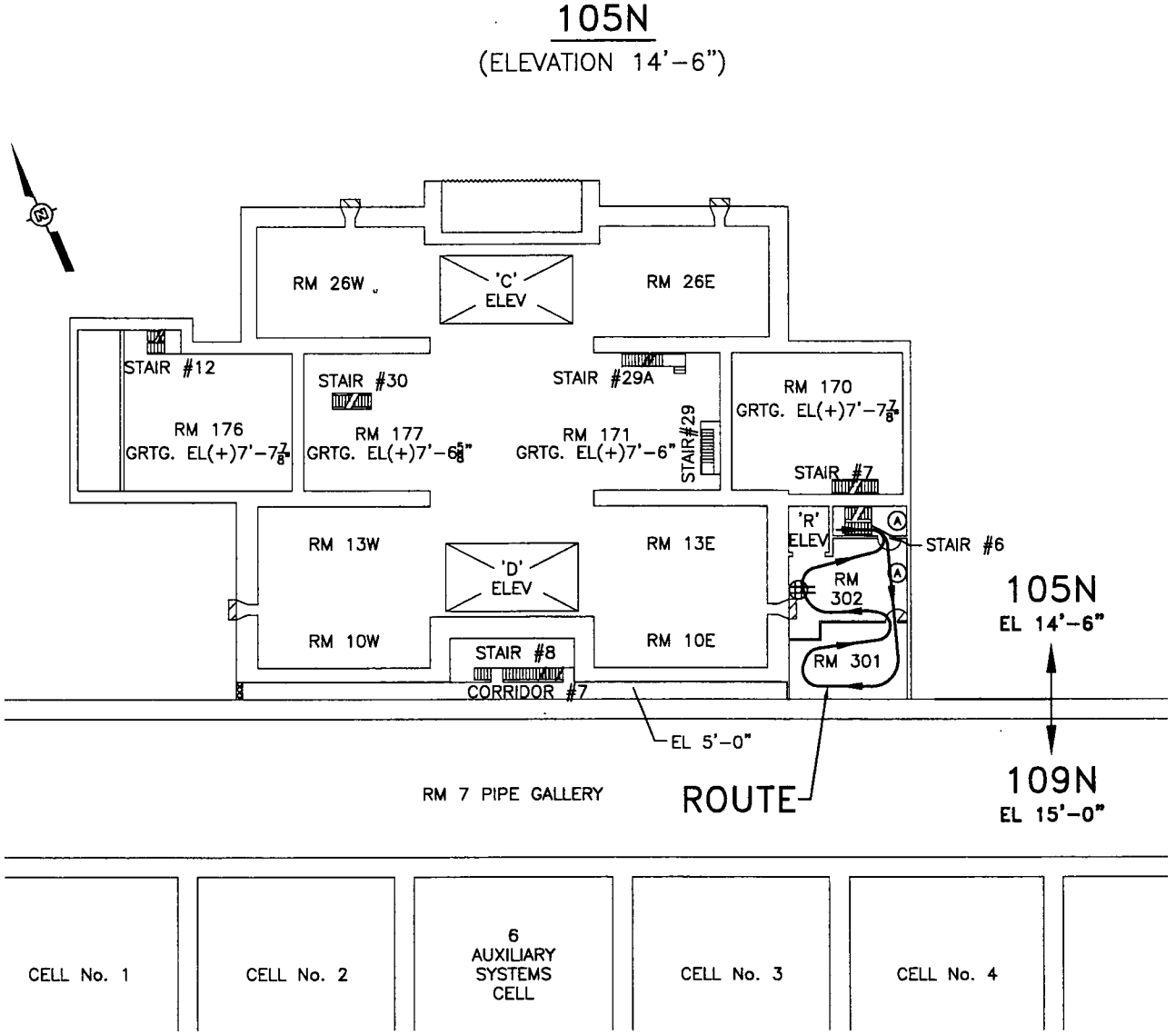
FIGURE 3-5. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION (-)21'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- LSH — LEVEL SWITCH
- TE — TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- A — METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

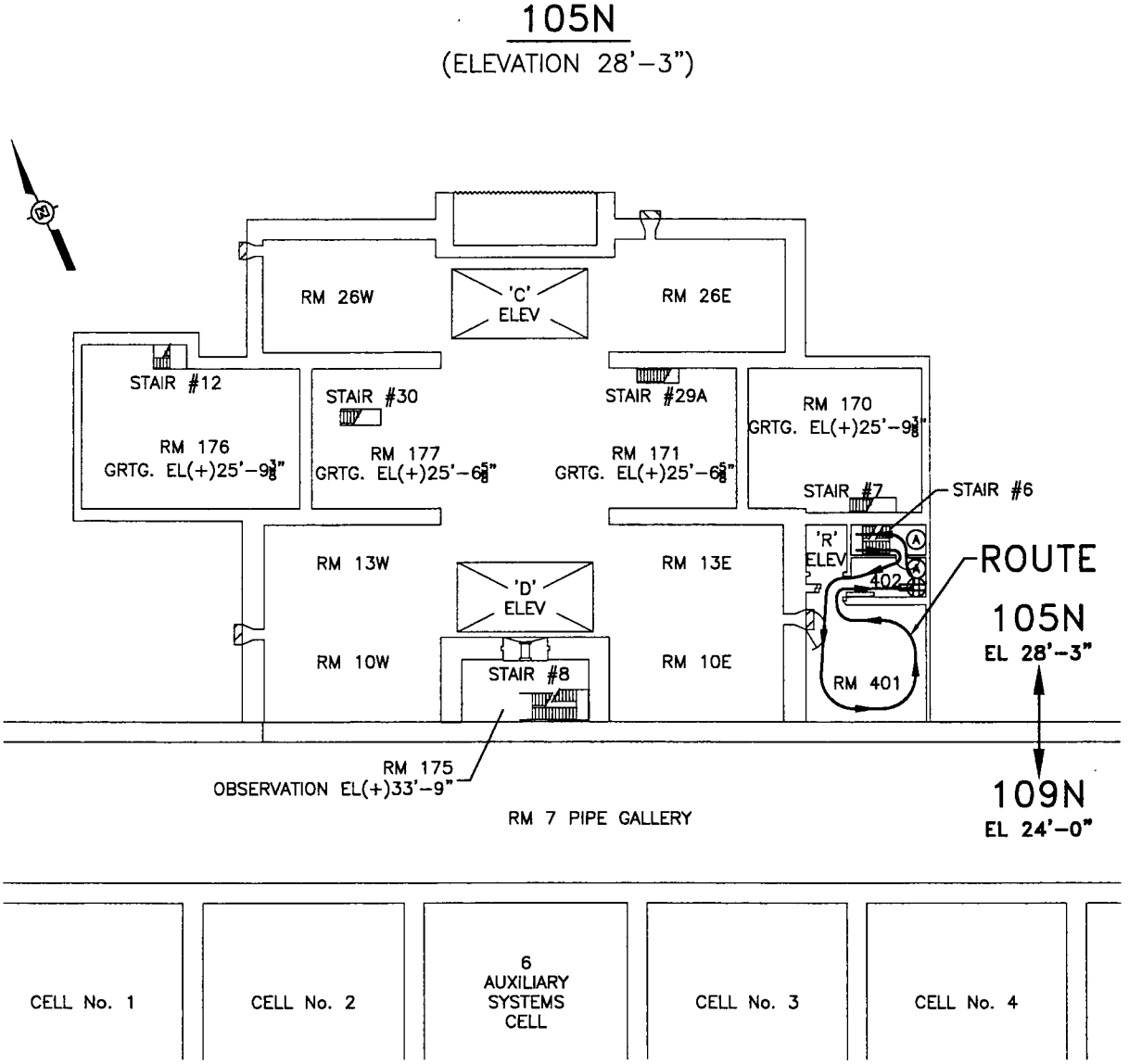
FIGURE 3-6. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 14'-6")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

FIGURE 3-7. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 28'-3")



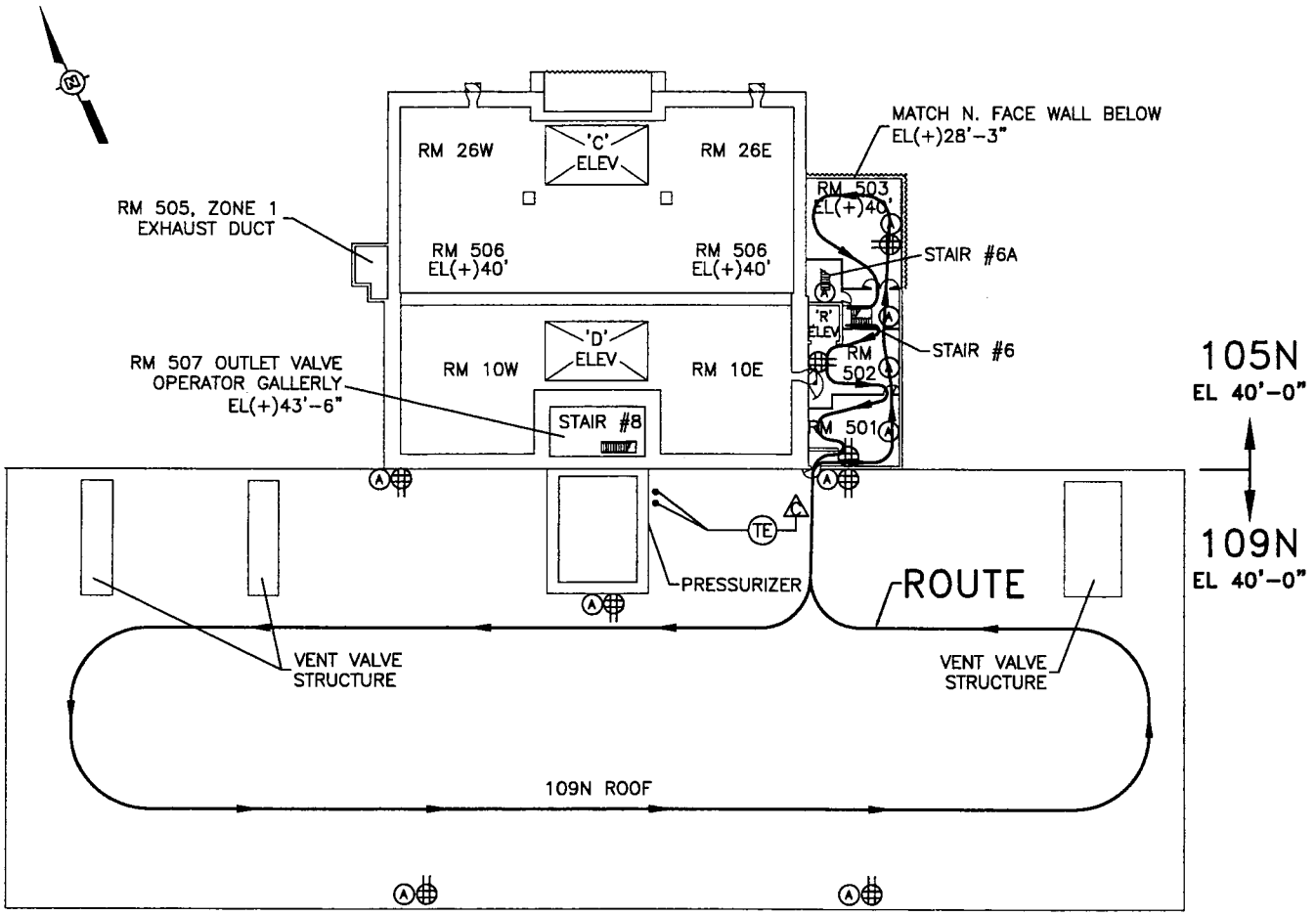
LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- LSH — LEVEL SWITCH
- TE — TEMPERATURE SWITCH
- CMS POINT — CONTROL & MONITORING SYSTEM (CMS) POINT
- A — METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

FIGURE 3-8. SURVEILLANCE AND INSPECTION ROUTE (105N/109N, ELEVATION 40'-0")

105N/109N

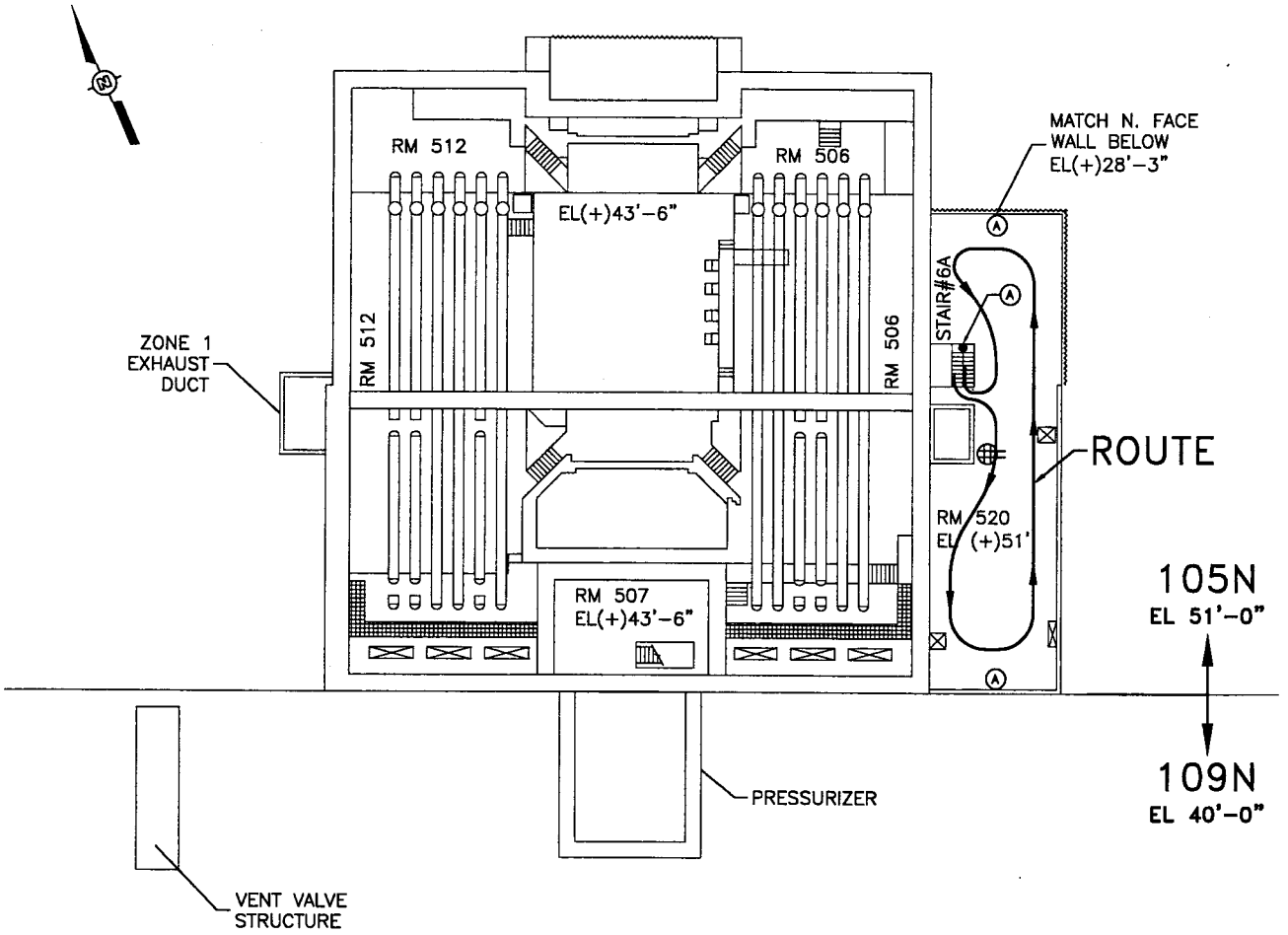
(ELEVATION 40'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- LSH — LEVEL SWITCH
- TE — TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- A — METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

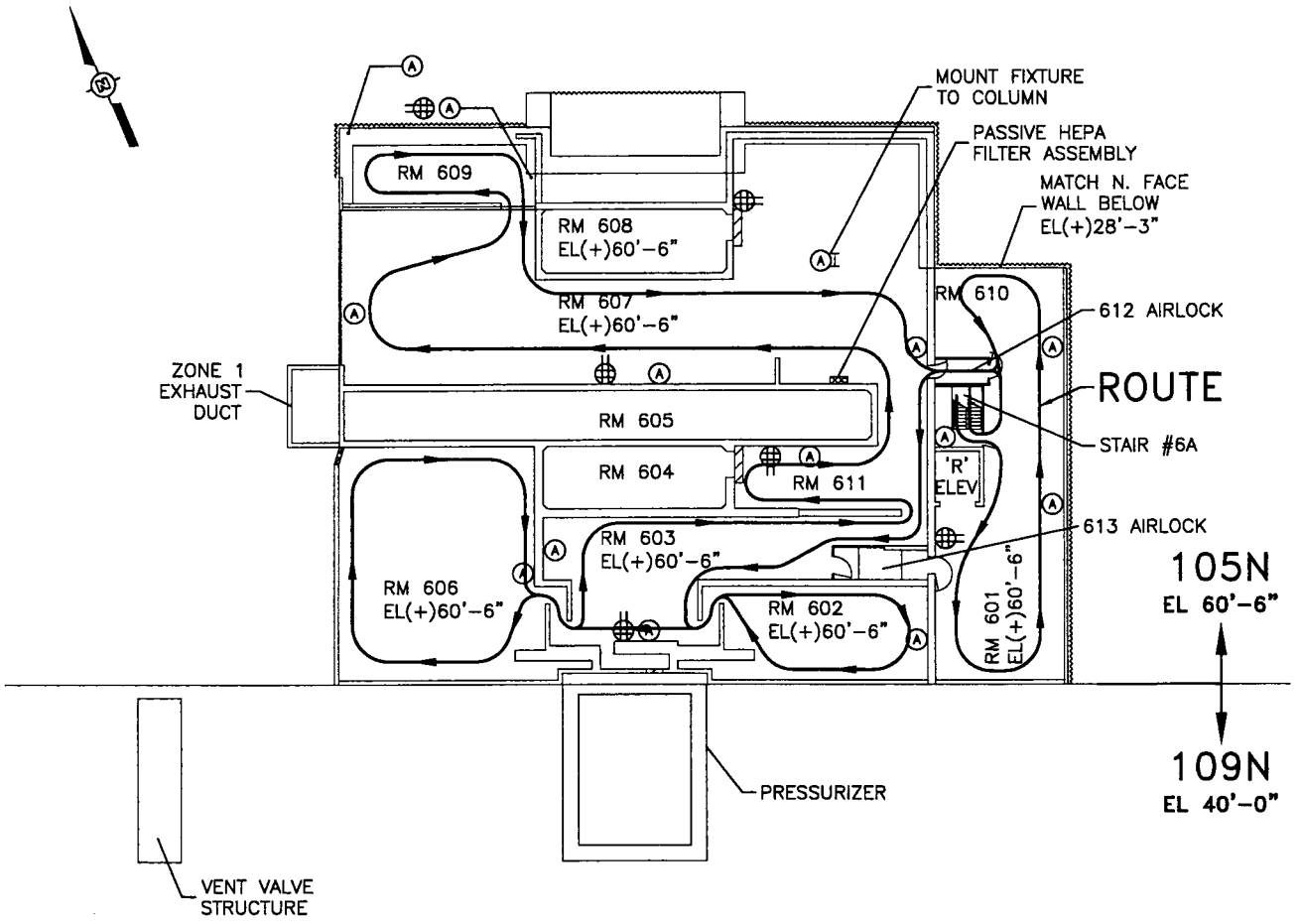
FIGURE 3-9. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 51'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

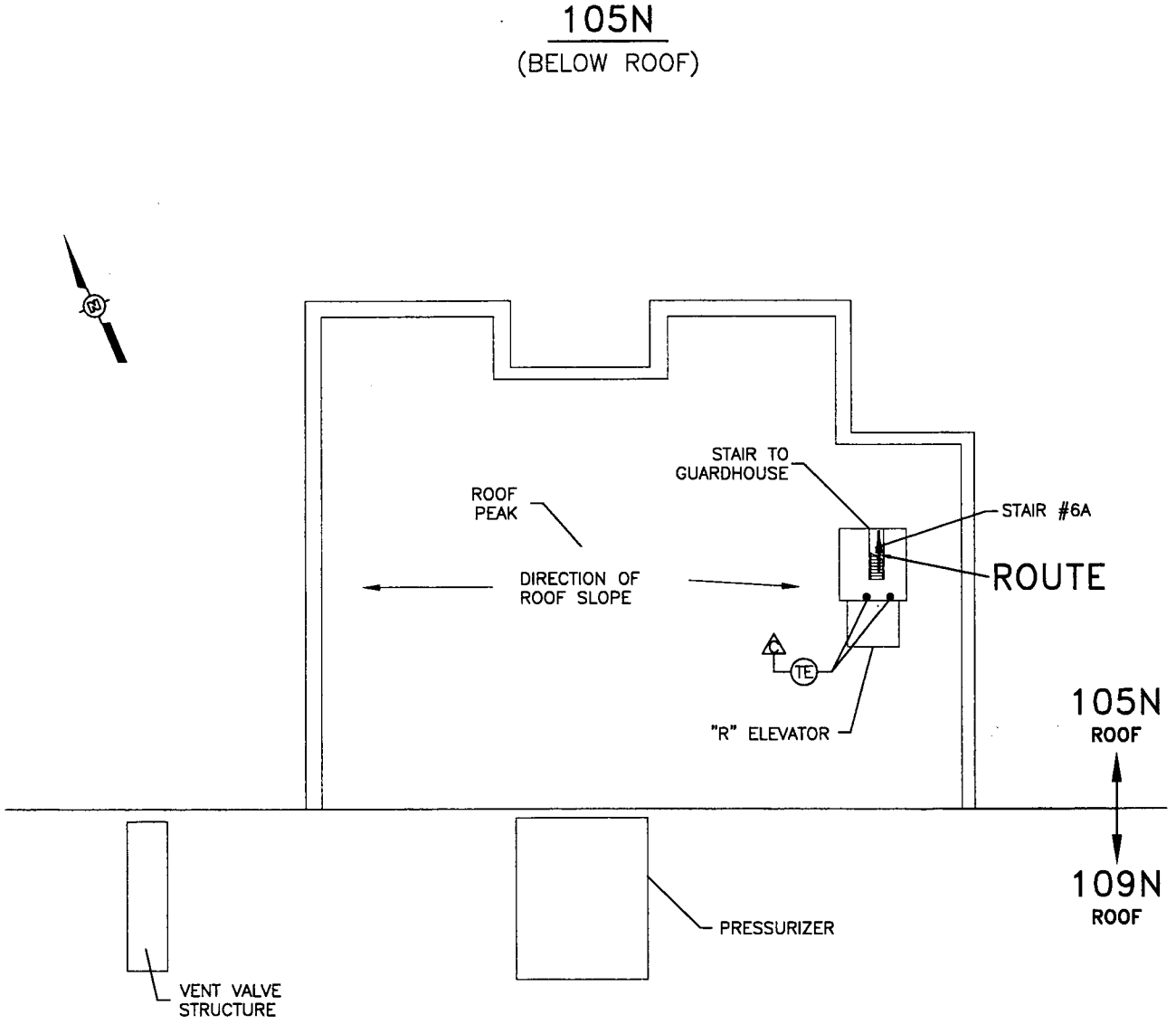
FIGURE 3-10. SURVEILLANCE AND INSPECTION ROUTE (105N, ELEVATION 60'-6")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- LSH — LEVEL SWITCH
- TE — TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- A — METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

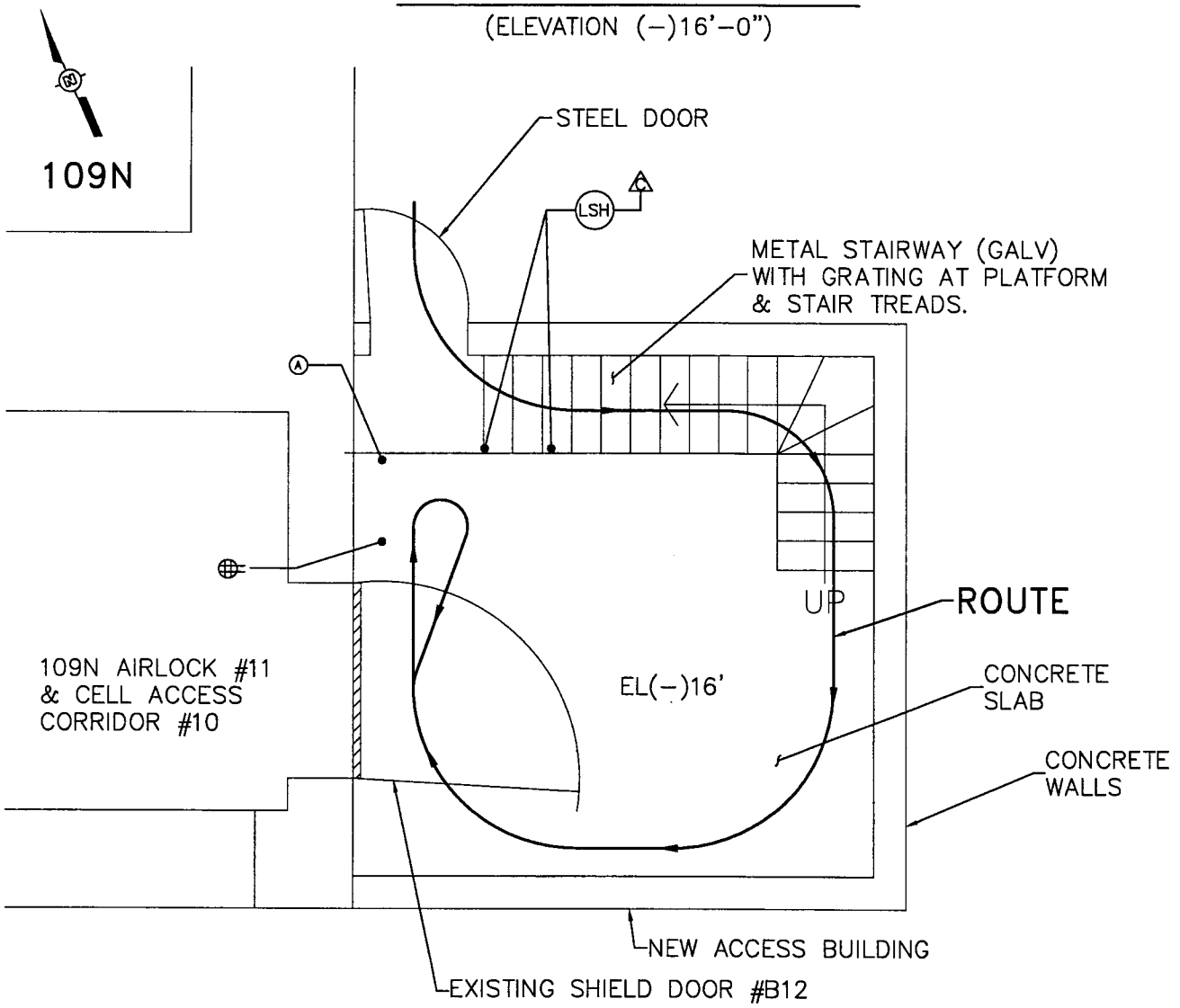
FIGURE 3-11. SURVEILLANCE AND INSPECTION ROUTE (105N, BELOW ROOF)



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

FIGURE 3-12. SURVEILLANCE AND INSPECTION ROUTE (109N ACCESS BUILDING, ELEVATION (-)16'-0")



LEGEND

- RECEPTACLE, QUADRUPLEX, 120V, 20A
- (LSH) LEVEL SWITCH
- (TE) TEMPERATURE SWITCH
- CONTROL & MONITORING SYSTEM (CMS) POINT
- (A) METAL HALIDE FIXTURE, 240V, 175W, WALL MOUNT, (APPLETON #E-WM-530H-MT OR APPROVED EQUAL)
- WELDED SHIELD DOOR
- CONCRETE POURBACK
- STEEL PLATE CLOSURE
- METAL ENCLOSURE

3.4 RADIOLOGICAL SURVEY RECORDS

Radiological Survey Records at 105-N & 109-N SSE

INDEX

RSR No.	Date	Building	Description/Location
RSR-100ISS-06-0065	08-16-2006	105N	Rm.170
RSR-100ISS-06-0069	08-16-2006	105N	Rm.170
RSR-100ISS-06-0070	08-16-2006	105N	Rm.170
RSR-100ISS-06-0071	08-16-2006	105N	Rm.170
RSR-100ISS-06-0073	08-17-2006	105N	Rm.176
RSR-100ISS-06-0078	08-21-2006	105N	Rm.177
RSR-100ISS-06-0084	08-22-2006	105N	Rm.170
RSR-100ISS-06-0086	08-23-2006	105N	Rm.171
RSR-100ISS-06-0109	08-31-2006	105N	Rm.170
RSR-100ISS-08-0615	10-08-2008	105N	Rm.170
RSR-100ISS-10-0326	04-13-2010	105N	Rm.7,8,9, R Elevator
RSR-100ISS-10-0327	04-13-2010	105N	Rm.4,5, Corridor#3
RSR-100ISS-10-0697	07-27-2010	109N	Rm.103,104,105,106
RSR-100ISS-10-0725	08-04-2010	109N	Rm.208,307, Stair#7
RSR-100ISS-10-0970	10-14-2010	105N	Corridor#4, Rm.37
RSR-100ISS-10-0986	10-19-2010	105N	Rm.35,41
RSR-100ISS-10-1032	10-27-2010	105N	Rm.35,41
RSR-100ISS-10-1253	12-28-2010	105N	Corridor#22
RSR-100ISS-11-0104	04-06-2011	109N	Roof(Pressurizer)
RSR-100ISS-11-0164	05-04-2011	109N	Rm.103,104,105,106
RSR-100ISS-11-0436	08-20-2011	105N	Roof(West Rod Rm.)
RSR-100ISS-11-0452	08-25-2011	109N	Roof(Main)
RSR-100ISS-11-0457	08-26-2011	105N	Rm.29(Front Face)
RSR-100ISS-11-0542	10-17-2011	105N	Roof(Main)
RSR-100ISS-11-0556	10-23-2011	105N	Rm.23(C Elevator Pit)
RSR-100N-11-2333	12-16-2011	109N	Access Bldg.
RSR-100N-11-2333	12-16-2011	105N	Rm.7,8,9,172-174,Str.#6/6A
RSR-100N-11-2334	12-16-2011	105N	Rm.401,402,501-503,520, 601-613, R Elevator
RSR-100N-12-0046	01-06-2012	105N	Rm.301,302
RSR-100ISS-12-0062	05-31-2012	105N	Corr.7, Rm.175,507, Stair#8
RSR-100ISS-12-0070	06-05-2012	105N	Corr.7, Rm.175,507, Stair#8
RSR-100ISS-12-0173	07-17-2012	105N	Corridor#22
RSR-NRx-98-0258	02-10-1998	105N	Rm.176,177

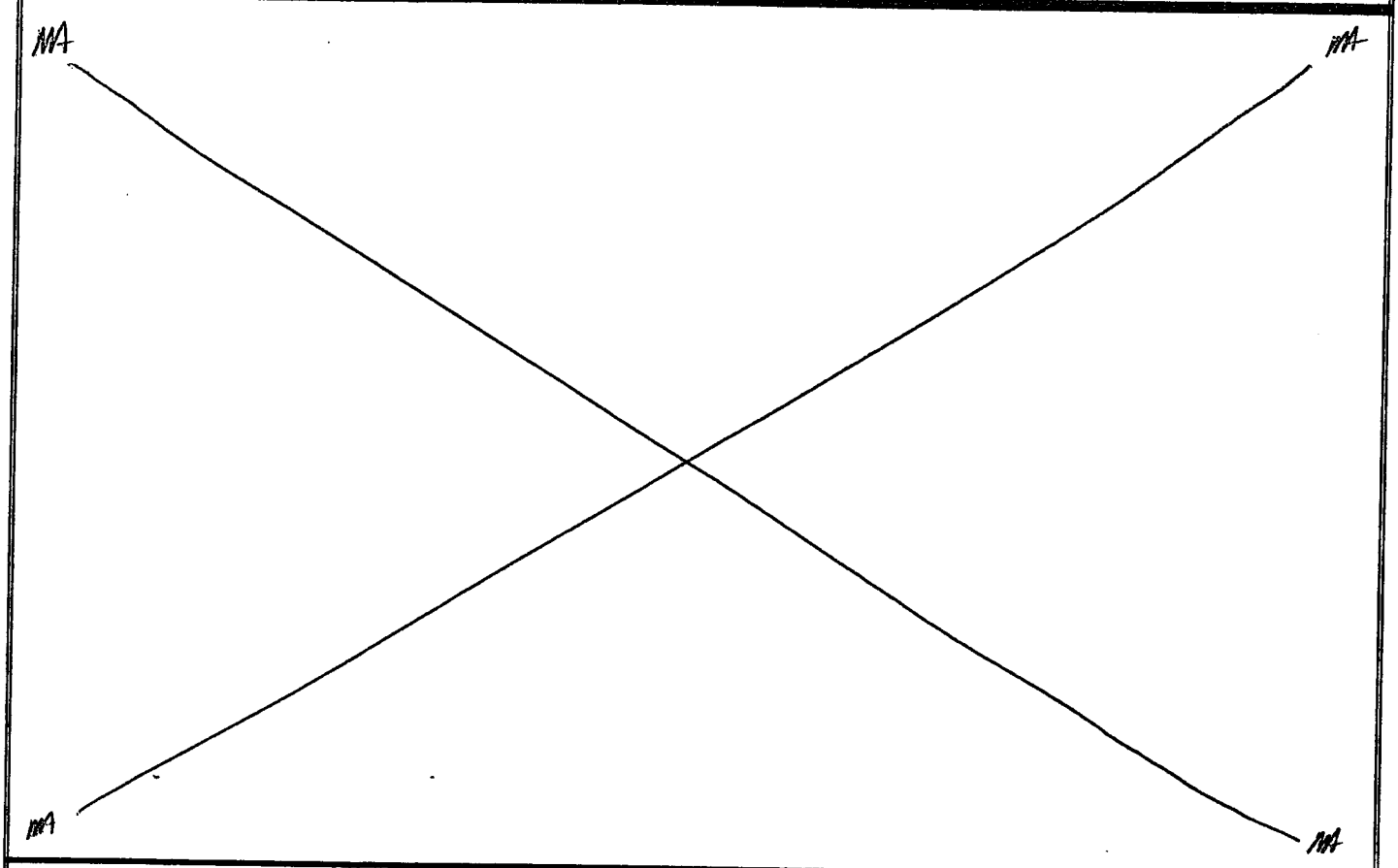
RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment
* The potential for internal contamination was evaluated.

Survey # RSR – 100155-06-0065

RWP # / Rev. #	Date	Time	Location Code
100155-06-001 r 4	8-16-06	1100	100N

Description Characterization survey, Initial Entry into 105-N Left Outer Pool Room 01



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-01 r5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary X-----X-----X | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
RO-20	1506	R	1	7-21-07	MA				MA
2224-2 43-93	0045 0136	R	6.74 20.5	2-27-07	MA				MA

RCT Name/Signature/Date:
C E Oren 8-16-06

RCT Supervisor Name/Signature/Date:
M Sims 8-23-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β.

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	LAW's	NA	NA	<1000	20	NA			NA
NA									NA
NA									NA

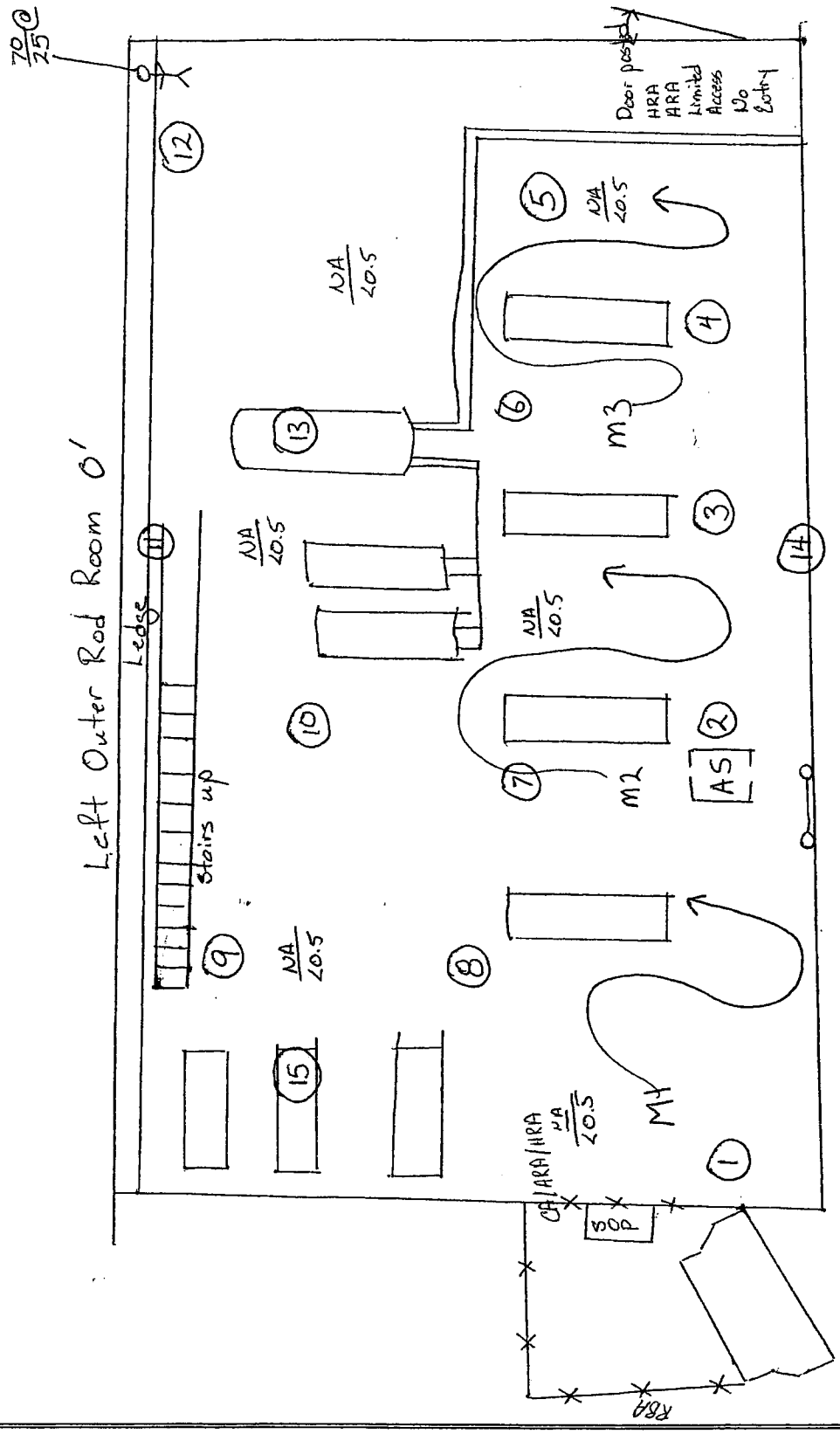
Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
Southwest Corner	NA	75	NA	25
NA				NA
NA				NA

Additional Information

(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0065

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 \6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Floor	α	1	2	1.8	5
		βγ	1	72	7	30
2		α		2	1.8	8-16-06 8 5
		βγ		55	0	8-16-06 61 0
3		α		3	2.8	8-16-06 8 8
		βγ		79	14	8-16-06 0 61
4		α		2	1.8	5
		βγ		65	0	8-16-06 178 0
5		α		2	1.8	8-16-06 0 5
		βγ		106	41	8-16-06 57 178
6		α		0	0	8-16-06 0 0
		βγ		78	13	8-16-06 78 57
7		α		0	0	0
		βγ		83	18	78
8		α		0	0	0
		βγ		50	0	0
9		α		0	0	0
		βγ		61	0	0
10		α		0	0	0
		βγ		87	22	96
11		α		1	0.8	2
		βγ		82	17	74
12	Floor	α		0	0	0
		βγ		133	68	296
13	Heat Exchanger	α		1	0.8	2
		βγ		56	0	0
14	Grating	α		1	0.8	2
		βγ		67	2	9

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06 -0065

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
15	Hydraulic Pump	α	(1	3	2.8	8
		βγ	1)	57	0	0
MA		α				MA
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
MA		βγ				MA

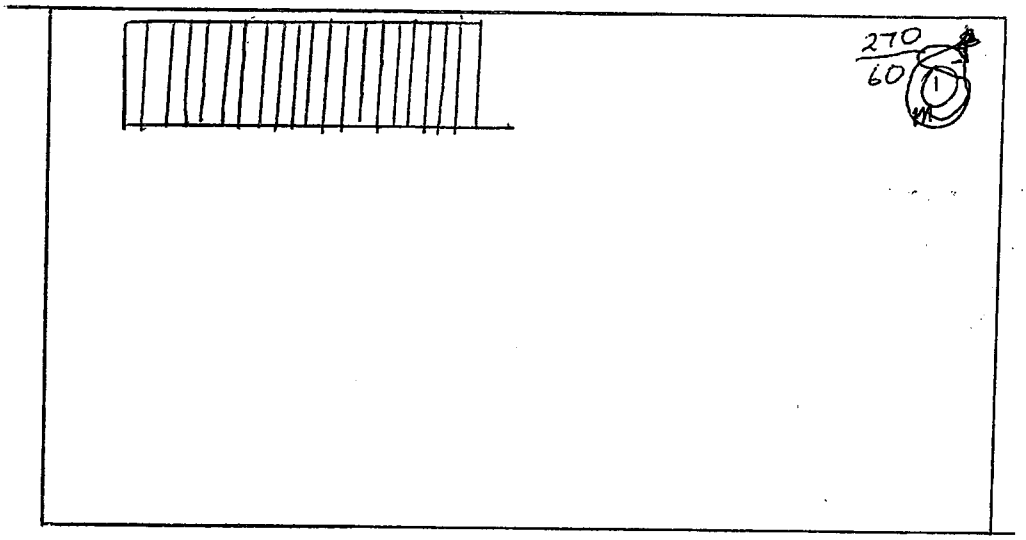
RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment
* The potential for internal contamination was evaluated.

Survey # RSR – 100ISS-06-0069

RWP # / Rev. #	Date	Time	Location Code
100ISS-06-001 r4	8-16-06	1530	100N

Description Survey of bag on 14' level of 105-N Left Outer Rod Room



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-01 r5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary X-----X-----X | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
RO-20	1506	R	1	7-21-07	NA				NA
Model 12 HP-210	0028 0055	R	206	2-7-07 11-10-06	NA				NA

RCT Name/Signature/Date:
CE Orem 8-16-06
M Dittenhafer 8-16-06

RCT Supervisor Name/Signature/Date:
M Sims 8-23-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	Mission LAW of bag	NA	NA	21000	20	NA	NA	NA	NA
NA									NA
NA									NA

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
Bag	8-16-06 NA R 20.5	270	20.5	60
NA				NA
NA				NA

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0069

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019 DTLLC-0042 12/15/2006	α	0.2	.370
	βγ	60	.200

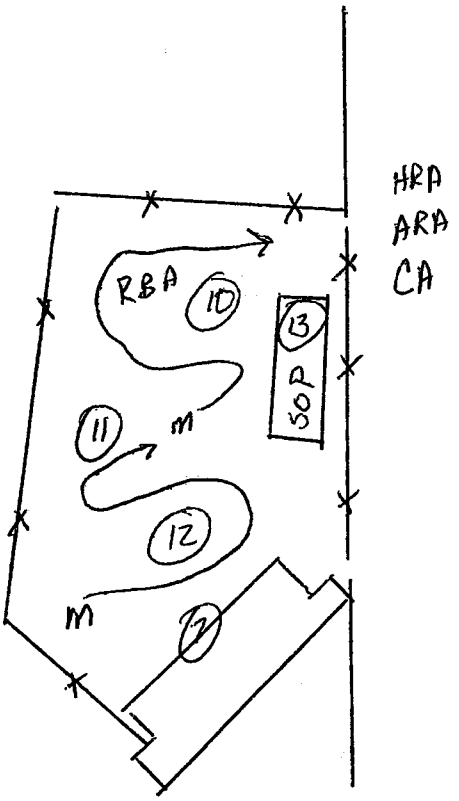
Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
1	BAG ON ELEV 1ST - LEFT OUTER ROD ROOM	α	1	2	1.8	4.9
		βγ	1	63	3	15
2	NA	α				NA
		βγ				
3		α				
		βγ				
4		α				
		βγ				
5		α				
		βγ				
6		α				
		βγ				
7		α				
		βγ				
8		α				
		βγ				
9		α				
		βγ				
10		α				
		βγ				
11		α				
		βγ				
12		α				
		βγ				
13		α				
		βγ				
14	NA	α				
		βγ				NA

RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)	Survey #
☒ *Release ☐ Routine N/A ☐ Work Progress ☐ Shipment * The potential for internal contamination was evaluated.	RSR – 100155-06 -0070

RWP # / Rev. #	Date	Time	Location Code
100155-06 -0015 r4	8-16-06	1600	100N

Description: Control Point surveys from Left Outer Rod Room Entry



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-01 r5

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	Radiological Boundary X-----X-----X	Δ Micro Rem (μR/hr)	N Neutrons (mRem/hr)	[AS] Air Sample Location	SCA Soil Contamination Area	RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2224-2 43-93	0045 0136	R	6.70 208	2-27-07	NA				NA
NA				NA	NA				NA

RCT Name/Signature/Date: CE Okrom 8-16-06

RCT Supervisor Name/Signature/Date: M Sims 8-25-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
	LAW 5	NA	NA	41000	20	NA	NA	NA	NA
NA									NA
NA									NA

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
NA				NA
NA				NA

RADIOLOGICAL SURVEY RECORD
(continuation)
Smear Counting Results

Page: 3 of 3

Survey # RSR- 100ISS-06-0070

Counter Location:		Background (cpm)	Counter Eff.
SCLL4-0075 DTLLC-0086 \6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Notepad	α	1	2	1.8	5
		βγ	1	78	13	57
2	Model 3	α		0	0	0
		βγ		38	0	0
3	RO-20	α		0	0	0
		βγ		68	3	13
4	Resp (2)	α		1	0.8	2
		βγ		66	1	4
5	Lapel (3)	α		2	1.8	5
		βγ		64	0	0
6	Pen	α		0	0	0
		βγ		53	0	0
7	Door	α		1	0.8	2
		βγ		63	0	0
8	Lt Stand	α		1	0.8	2
		βγ		74	9	39
9	Lt Stand	α		0	0	0
		βγ		71	6	26
10	RBA Floor	α		2	1.8	5
		βγ		64	0	0
11	RBA Floor	α		0	0	0
		βγ		69	4	17
12	RBA Floor	α		3	2.8	8
		βγ		62	0	0
13	SOP	α		1	0.8	2
		βγ		52	0	0
14	NA	α				NA
		βγ				

RADIOLOGICAL SURVEY RECORD

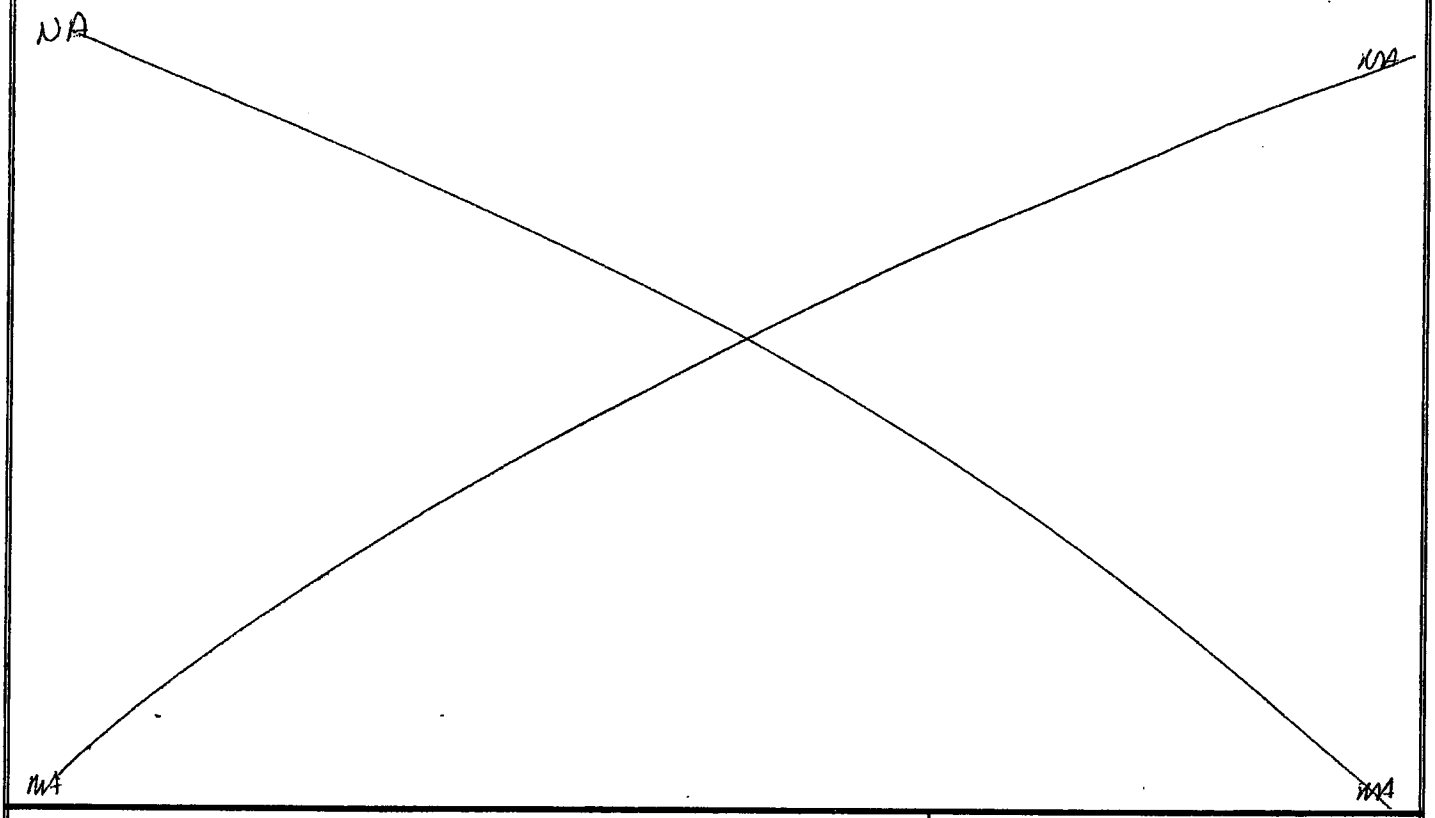
Type of Survey (check one only)
☐ *Release ☐ Routine NA ☒ Work Progress ☐ Shipment
* The potential for internal contamination was evaluated.

Survey # RSR – 100155-06-0071

RWP # / Rev. #	Date	Time	Location Code
100155-06-001 r4	8-16-06	1600	100N

Description Left Outer Rod Room Levels 14'3" to 40' characterization survey/ 105N

Area being surveyed posted as CA, HRA



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-01 r5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary x-----x-----x | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2224-2 43-93	0045 0136	R	6.72 20.6	2-27-07	NA				NA
RO-20	1506	R	1	7-21-07	NA				NA

RCT Name/Signature/Date:
CE Orem 8-16-06
MT Tittenhauser 8-16-06

RCT Supervisor Name/Signature/Date:
M Sims 8-23-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β.

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
NA									NA
NA									NA

Corrected Dose Rate Calculations

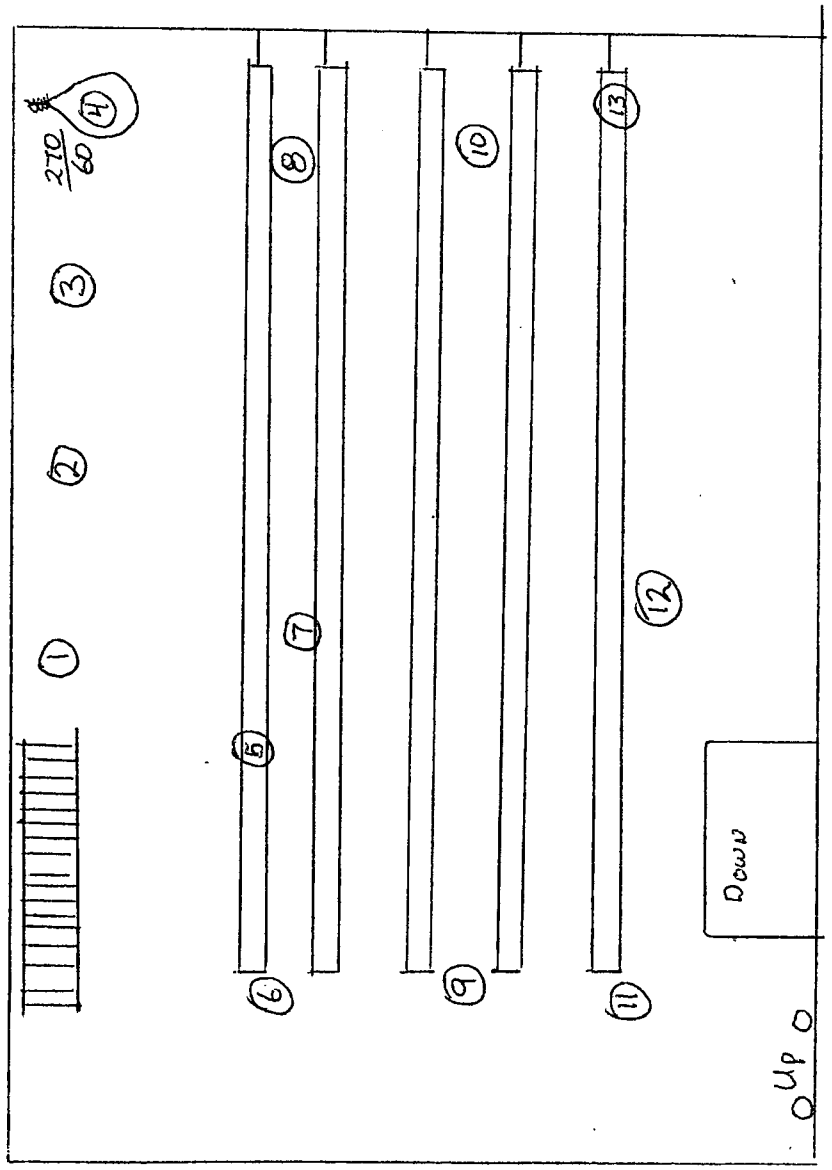
Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
Bag on 14' level	~~mjp 8/12/06 10.5~~ NA	270	~~mjp 8/12/06 40~~ NA	60
Rod Control Rem 28' level	NA	2.6	NA	1.5
Rod Control Rem 40' level	NA	1	NA	0.6
NA				NA
NA				DS

Additional Information

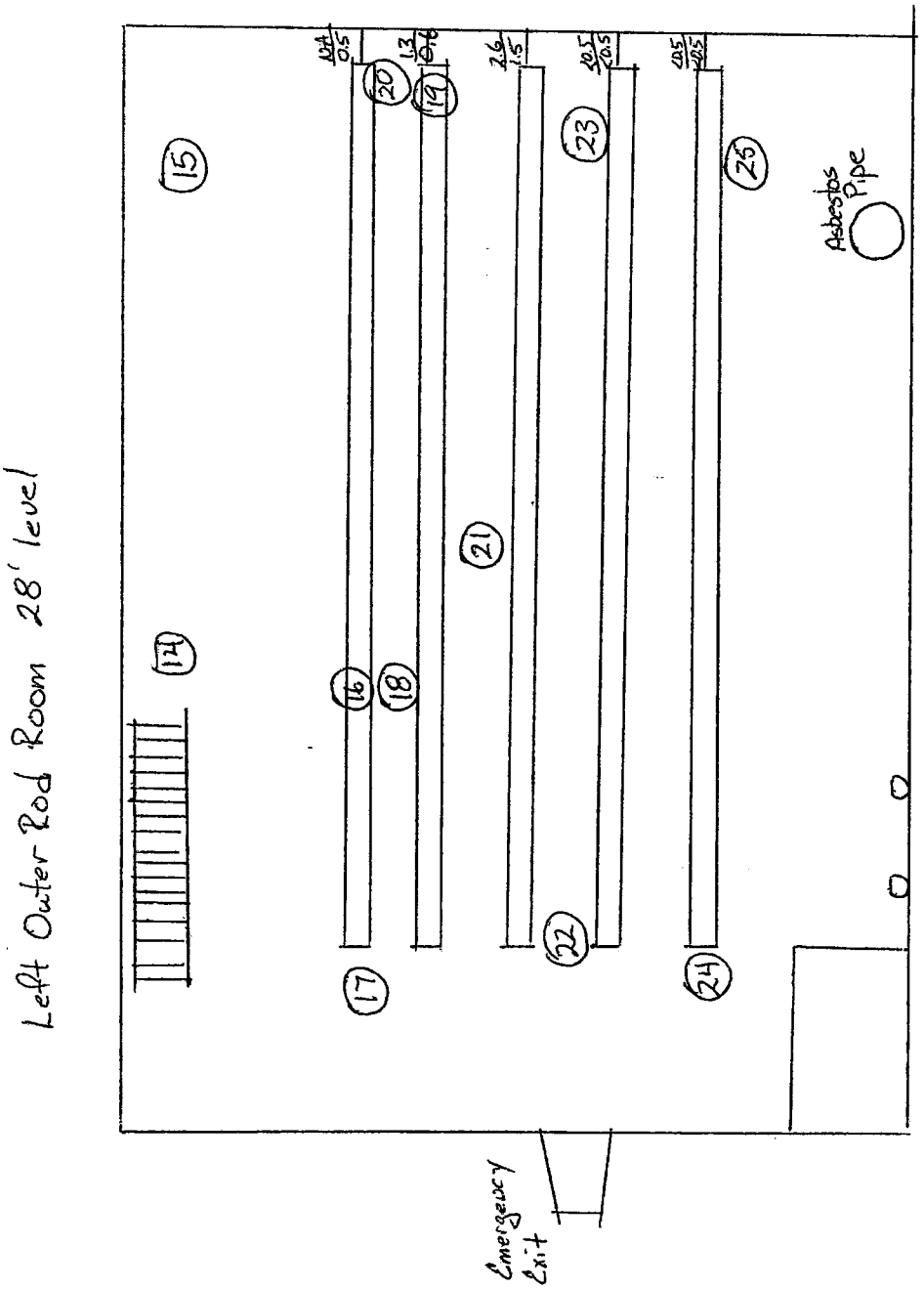
(Drawing, Map, Etc.)

Left Outer Rod Room 14' level



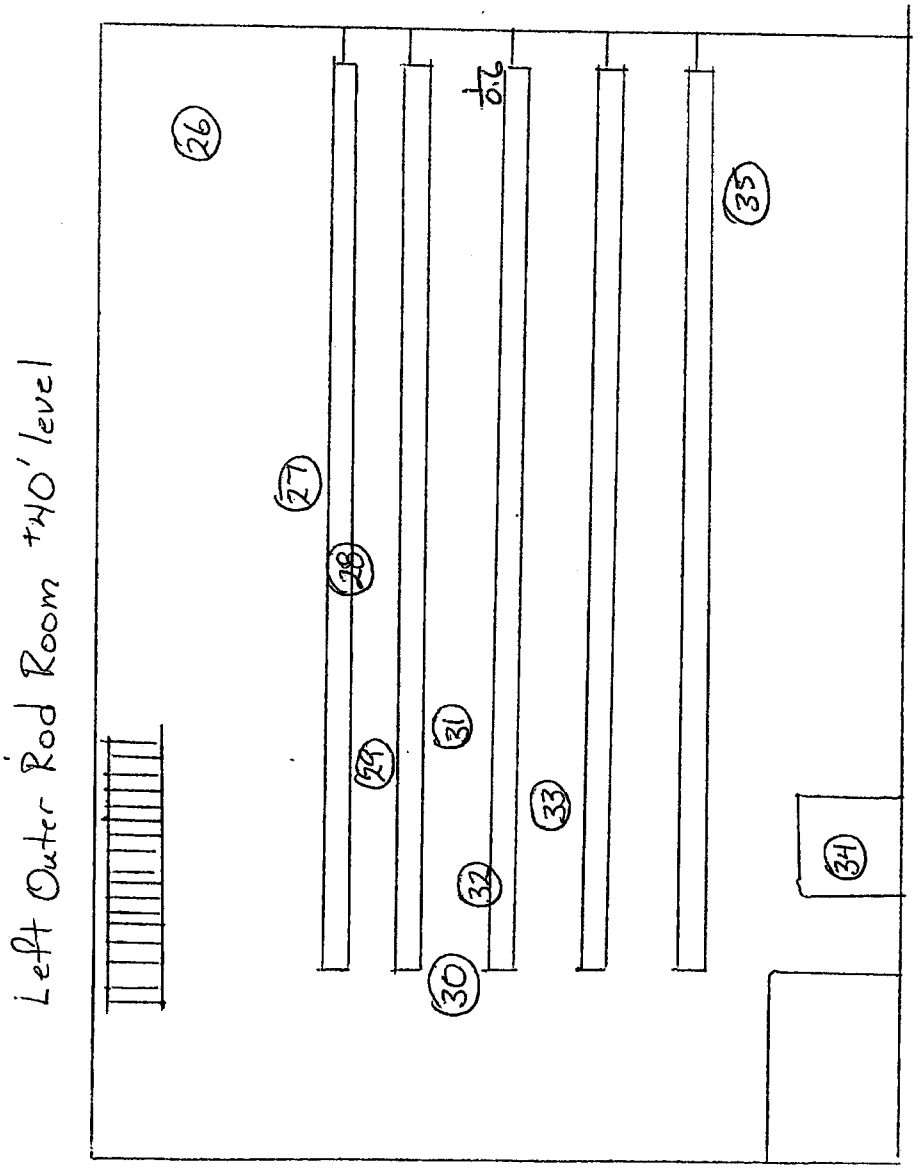
RADIOLOGICAL SURVEY RECORD (continuation)	Page: 4 of 8 Survey # RSR 100ISS-06-0071

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)	Page: 5 of 8 Survey # RSR 100ISS-06-0071

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0071

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 \6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Floor	α	1	0	0	<20
		βγ	1	53	0	<1000
2	↓	α		0	0	<20
		βγ		61	0	<1000
3	↓	α		0	0	<20
		βγ		53	0	<1000
4	Bag	α		0	0	<20
		βγ		54	0	<1000
5	Tray	α		2	1.8	5.0
		βγ		61	0	<1000
6	Floor	α		0	0	<20
		βγ		73	8	34
7	↓	α		1	.8	2.0
		βγ		55	0	<1000
8	↓	α		0	0	<20
		βγ		79	14	60
9	↓	α		0	0	<20
		βγ		55	0	<1000
10	↓	α		0	0	<20
		βγ		73	8	34
11	↓	α		0	0	<20
		βγ		58	0	<1000
12	↓	α		0	0	<20
		βγ		51	0	<1000
13	Ram	α		1	.8	2.0
		βγ		128	47	202
14	Floor	α	↓	0	0	<20
		βγ	↓	62	0	<1000

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Page: 7 of 8

Survey # RSR- 100ISS-06-0071

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
15	Floor	α	1	1	-.8	2.0
		βγ	1	74	9	39.0
16	Rack	α		0	0	<20
		βγ		57	0	<1000
17	Floor	α		0	0	<20
		βγ		64	0	<1000
18	Floor	α		0	0	<20
		βγ		62	0	<1000
19	Ram	α		3	2.8	8.0
		βγ		87	22	95
20	Floor	α		0	0	<20
		βγ		81	16	69.0
21		α		0	0	<20
		βγ		62	0	MDC 2 <1000
22		α		0	0	<20
		βγ		68	3	13.0
23		α		1	-.8	2.0
		βγ		83	18	77.0
24		α		0	0	<20
		βγ		52	0	<1000
25	Floor	α		0	0	<20
		βγ		88	23	99
26	Floor	α		1	-.8	2.0
		βγ		59	0	<1000
27	Floor	α		1	-.8	2.0
		βγ		67	2	9.0
28	Trough	α		0	0	<20
		βγ		66	1	4.0

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0071

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
29	Floor	α	1	0	0	<20
		βγ	1	75	10	43
30	Floor	α		0	0	<20
		βγ		74	9	39
31	Floor	α		0	0	<20
		βγ		59	0	<1000
32	Piping	α		0	0	<20
		βγ		60	0	<1000
33	Floor	α		1	-8	2.0
		βγ		79	9	39
34	Floor	α		0	0	<20
		βγ		70	5	22
35	Floor	α		0	0	<20
		βγ	↓	52	0	<1000
NA		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
NA		α				
		βγ				NA

RADIOLOGICAL SURVEY RECORD

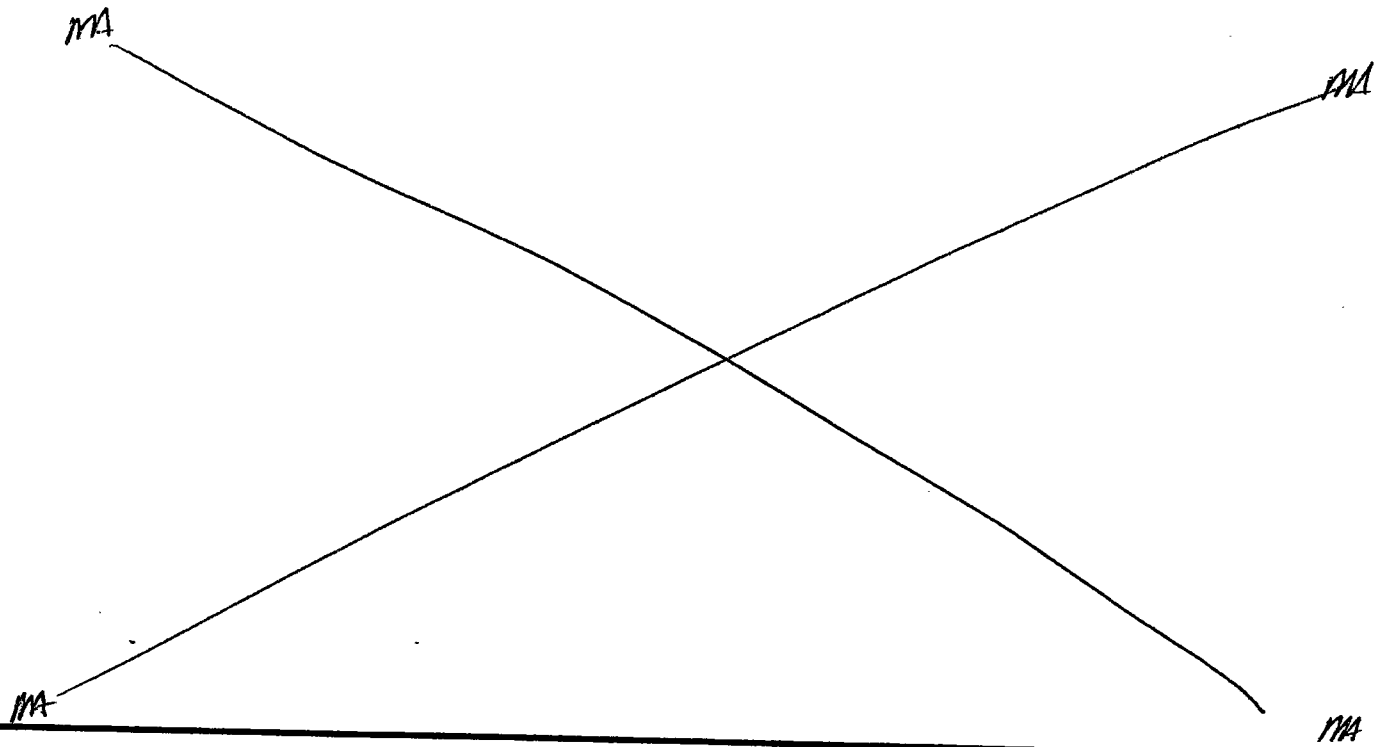
Type of Survey (check one only)
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment
* The potential for internal contamination was evaluated.

Survey # RSR – 100155-06-0073

RWP # / Rev. #	Date	Time	Location Code
100155-06-001 r4	8-17-06	1400	100N

Description Right Outer Rod Room Characterization survey 14' → 40'

Oil on pushrods is highly contaminated
Downposted RBA when jump completed



All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-01-SR-01 r5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary X-----X-----X | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2224-2 4-3-93	0045 0136	R	6.72 20B	2-27-07	model 12 HP 210	0028 0055	R	8-17-06 ~~20B~~ 12.5	2-2-07 11-10-06
RO-20	1321	R	1	3-8-07	MA				MA

RCT Name/Signature/Date:
CE Orem 8-17-06
M.J. Williams | M.J. Williams 8/17/06

RCT Supervisor Name/Signature/Date:
M Sims 8-17-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
1	LAW Push Rod	NA	NA	37.5K	12.5 ~~20~~ 8.1 Ok	NA	NA	NA	NA
2	LAW General	NA	NA	<2500	12.5	NA			NA
NA					NA				
NA						NA			NA

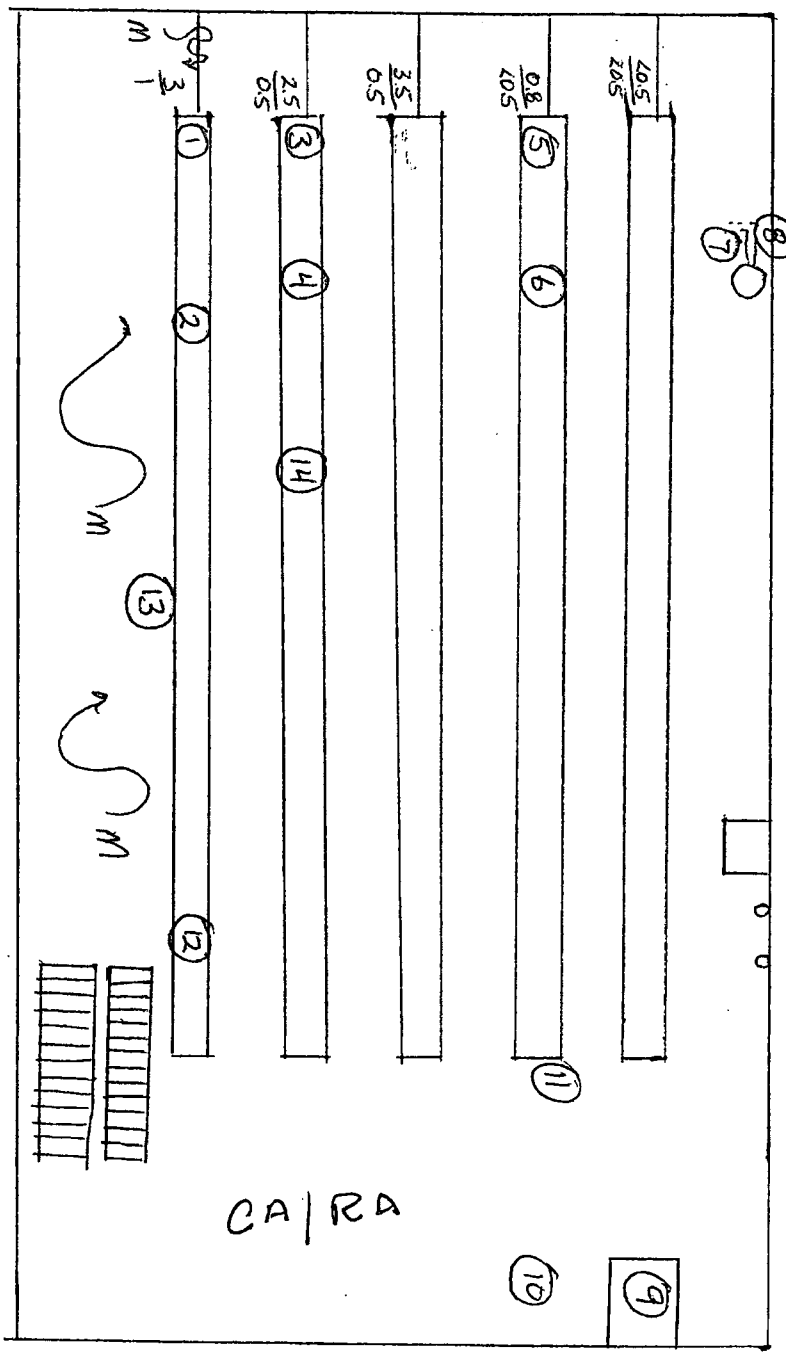
Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
14' Level	NA	3	NA	1
28' Level	NA	3.5	NA	0.8
40' Level	NA	2.8	NA	0.7
NA				NA
NA				NA

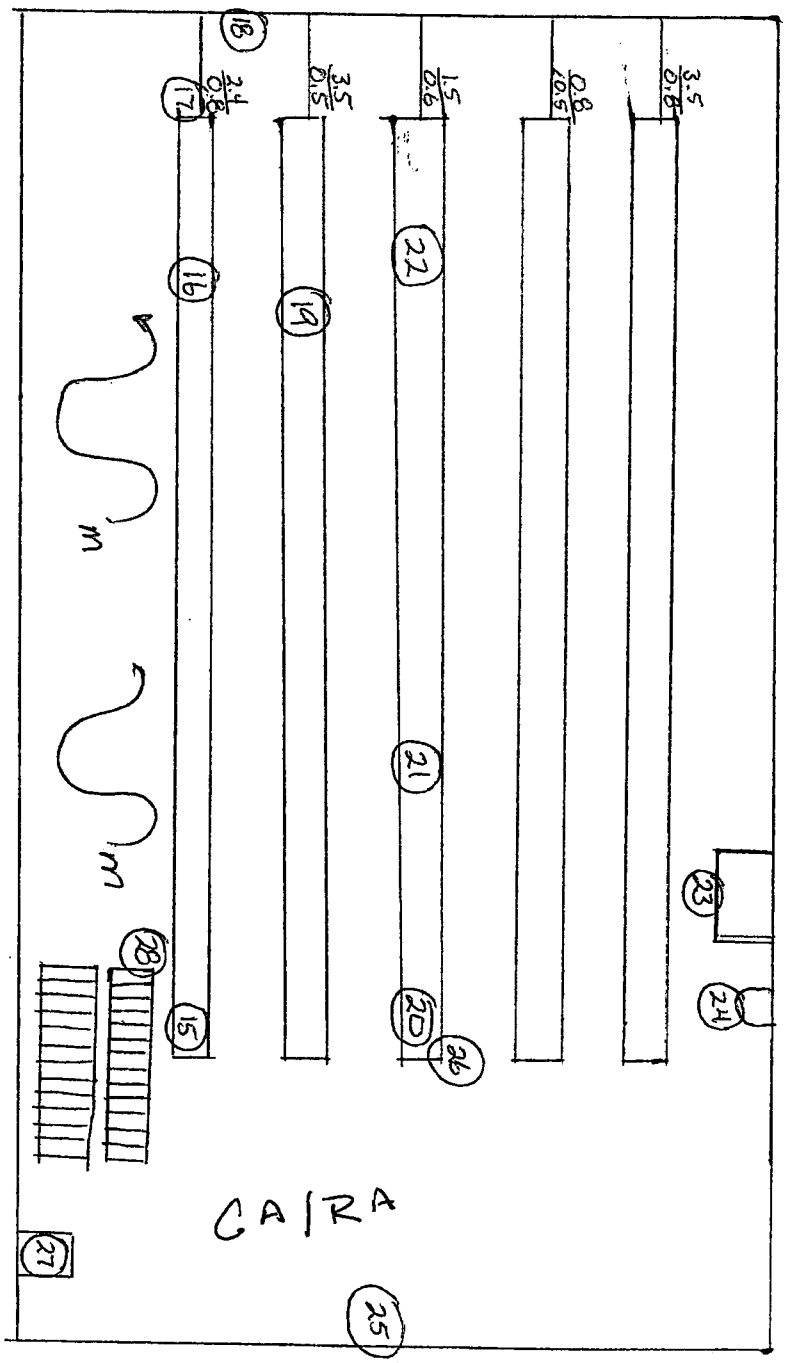
RADIOLOGICAL SURVEY RECORD (continuation)	Page: 3 of 9 Survey # RSR 100ISS-06-0073

Additional Information
(Drawing, Map, Etc.)



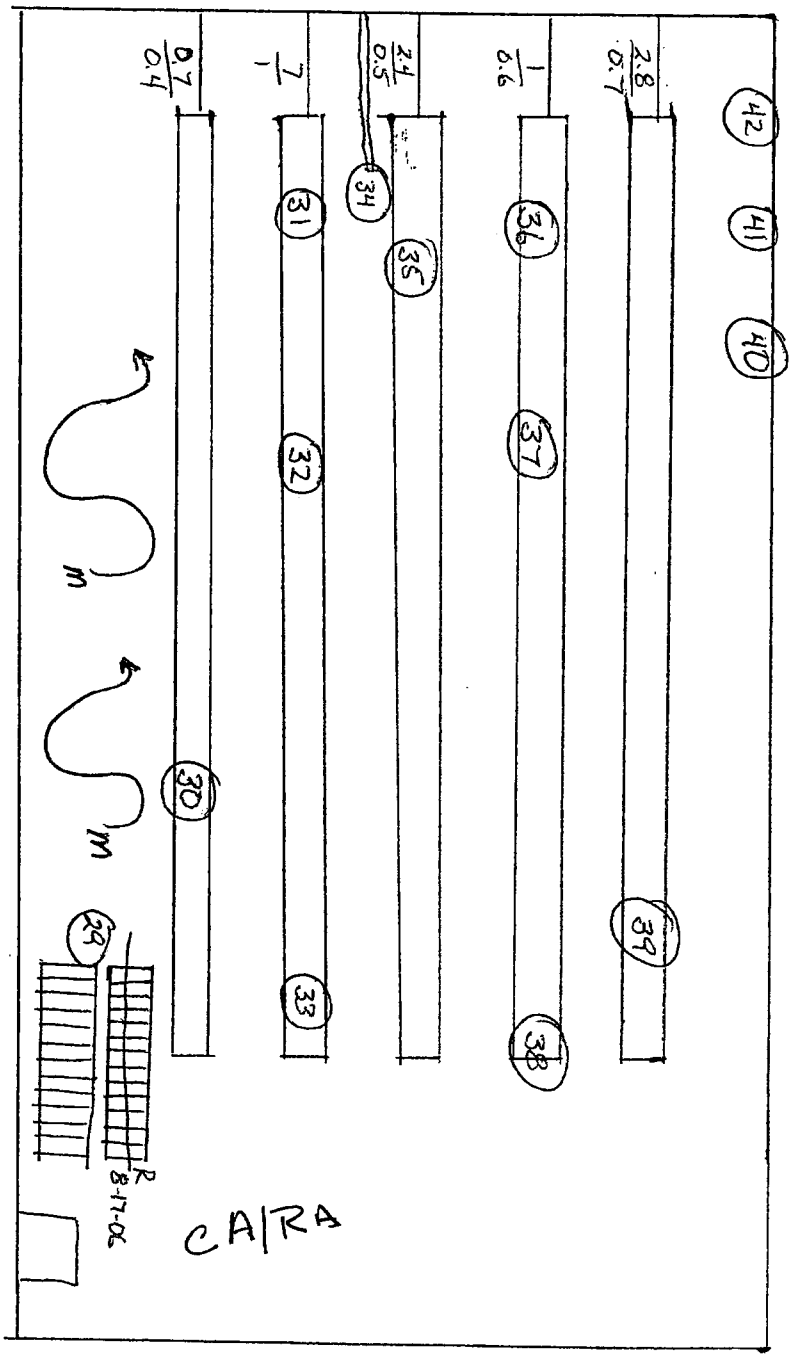
RADIOLOGICAL SURVEY RECORD (continuation)	Page: 4 of 9 Survey # RSR 100ISS-06-0073

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)	Page: 5 of 9 Survey # RSR 100ISS-06-0073

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0073

Counter Location:		Background (cpm)	Counter Eff.
SCLL4-0019 DTLLC-0042 12/15/2006	α	0.2	.370
	βγ	60	.200

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Rod Sleeve Grease	α	1	1	0.8	2
		βγ	1	545	485	2425
2	Tray	α		~~0~~	~~0~~	~~0~~
		βγ		71	11	55
3	Rod Sleeve Grease	α		~~0~~	~~0~~	~~0~~
		βγ		963	903	4515
4	Drive Chain	α		0	~~0~~	~~0~~
		βγ		82	22	110
5	Sleeve	α		0	~~0~~	~~0~~
		βγ		243	183	915
6	Tray	α		~~0~~	~~0~~	~~0~~
		βγ		84	24	mw 120
7	Cooling Water Pump	α		4	3.8	10
		βγ		292	232	1160
8	Wall	α		0	~~0~~	~~0~~
		βγ		250	190	950
9	Table	α		0	~~0~~	~~0~~
		βγ		68	8	40
10	Floor	α		3	2.8 3 mw ~~8~~	8
		βγ		62	~~0~~	~~0~~
11	Pressure Reducer	α		~~0~~	~~0~~	~~0~~
		βγ		65	~~0~~	~~0~~
12	Handrail	α		1	0.8	2
		βγ		72	7	35
13	Column	α		0	~~0~~	~~0~~
		βγ		64	~~0~~	~~0~~
14	Copper Tubing	α	1	2	1.8	5
		βγ	1	118	58	290

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06- 0073

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019 DTLLC-0042 12/15/2006	α	0.2	.370
	βγ	60	.200

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
15	Rail	α	1	2	1.8	5
		βγ	1	82	22	110
16	Metal Track	α		1	0.8	2
		βγ		70	10	50
17	Push Rod	α		2	1.8	5
		βγ		293	233	1165
18	Wall	α		0	~~0~~	~~0~~
		βγ		54	~~0~~	~~0~~
19	Metal Bar	α		2	1.8	5
		βγ		109	49	245
20	Metal Rail	α		0	~~0~~	~~0~~
		βγ		66	6	30
21	Tray	α		0	~~0~~	~~0~~
		βγ		65	~~0~~	~~0~~
22	Sleeve	α		1	0.8	2.2
		βγ		96	36	180
23	Handrail	α		4	3.8	10.3
		βγ		60	0	0
24	Small Ledge	α		3	2.8	7.6
		βγ		213	153	765
25	Wall	α		4	3.8	10.3
		βγ		73	13	65
26	Airline	α		0	0	0
		βγ		56	0	0
27	Tray	α		0	0	0
		βγ		83	23	115
28	Handrail	α	1	4	3.8	10.3
		βγ	1	72	12	60

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0073

Counter Location:		Background (cpm)	Counter Eff.
SCLL4-0019	α	0.2	.370
DTLLC-0042	βγ	60	.200
12/15/2006			

Sample			Counting Results			Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
29	Handrail	α	1	1	0.8	2.2
		βγ	1	61	1	5
30	Red Ducker	α		1	0.8	2.2
		βγ		116	56	0
31	Push Rod	α		0	0	0
		βγ		291	231	1155
32	Verticle Insulated Pipe	α		0	0	0
		βγ		50	0	0
33	Flexhose	α		4	3.8	10.3
		βγ		73	13	65
34	Horizontal Pipe Protusion	α		0	0	0
		βγ		67	7	35
35	Metal Railing	α		0	0	0
		βγ		66	6	30
36	Chain	α		0	0	0
		βγ		75	15	75
37	Under Dripper	α		1	0.8	2.2
		βγ		62	2	10
38	"I" Beam	α		0	0	0
		βγ		54	0	0
39	Accumulator	α		0	0	0
		βγ		43	0	0
40	Spring Car Shock Absorber	α		1	0.8	2.2
		βγ		206	146	730
41	Wall	α		2	1.8	4.9
		βγ		185	125	625
42	Wall	α		0	0	0
		βγ		56	0	0

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0073

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019	α	0.2	.370
DTLLC-0042	βγ	60	.200
12/15/2006			

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
43	SOP	α	1	1	0.8	2.2
		βγ	1	75	15	75
44	Right Outer Rod Room door	α		0	0	0
		βγ		69	9	45
45	Floor	α		0	0	0
		βγ		65	5	25
46		α		0	0	0
		βγ		52	0	0
47		α		0	0	0
		βγ		61	1	5
48		α		0	0	0
		βγ		65	5	8-17-06 R 25
49		α		0	0	0
		βγ		59	0	0
NA		α				NA
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
NA		α				
		βγ				NA

RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)	Survey #
☐ *Release ☐ Routine NA ☒ Work Progress ☐ Shipment * The potential for internal contamination was evaluated.	RSR– 100ISS-06-0078

RWP # / Rev. #	Date	Time	Location Code
100ISS-06-001/04	8/21/06	1630	100N

Description
105N Right inner rod room – first floor

This survey was performed to provide initial data from the right inner rod room. Smears and dose rates were taken throughout the area. Smear results are found on page 3. Dose rate results and smear locations are found on the drawing on page 4.

Locations of air samples are found on the attached drawing

All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated. Technical Assessment # TA-04-SR-01/5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary x-----x-----x | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2929 / 43-10-1	0075 / 0086	MJD	<-20 / 8-4-3	6-21-07	TELETECTOR	0019	MJD	NA	5/31/06
RO-20	1508	MJD	NA	7-21-07	NA				

RCT Name/Signature/Date:
CR Oram 8-22-06
MJ Tenhaiser 8-22-06

RCT Supervisor Name/Signature/Date:
M Sims 8-31-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
0	SEE PAGE 3								
				N/A					

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
SEE PAGE 4				
		N/A		

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0078

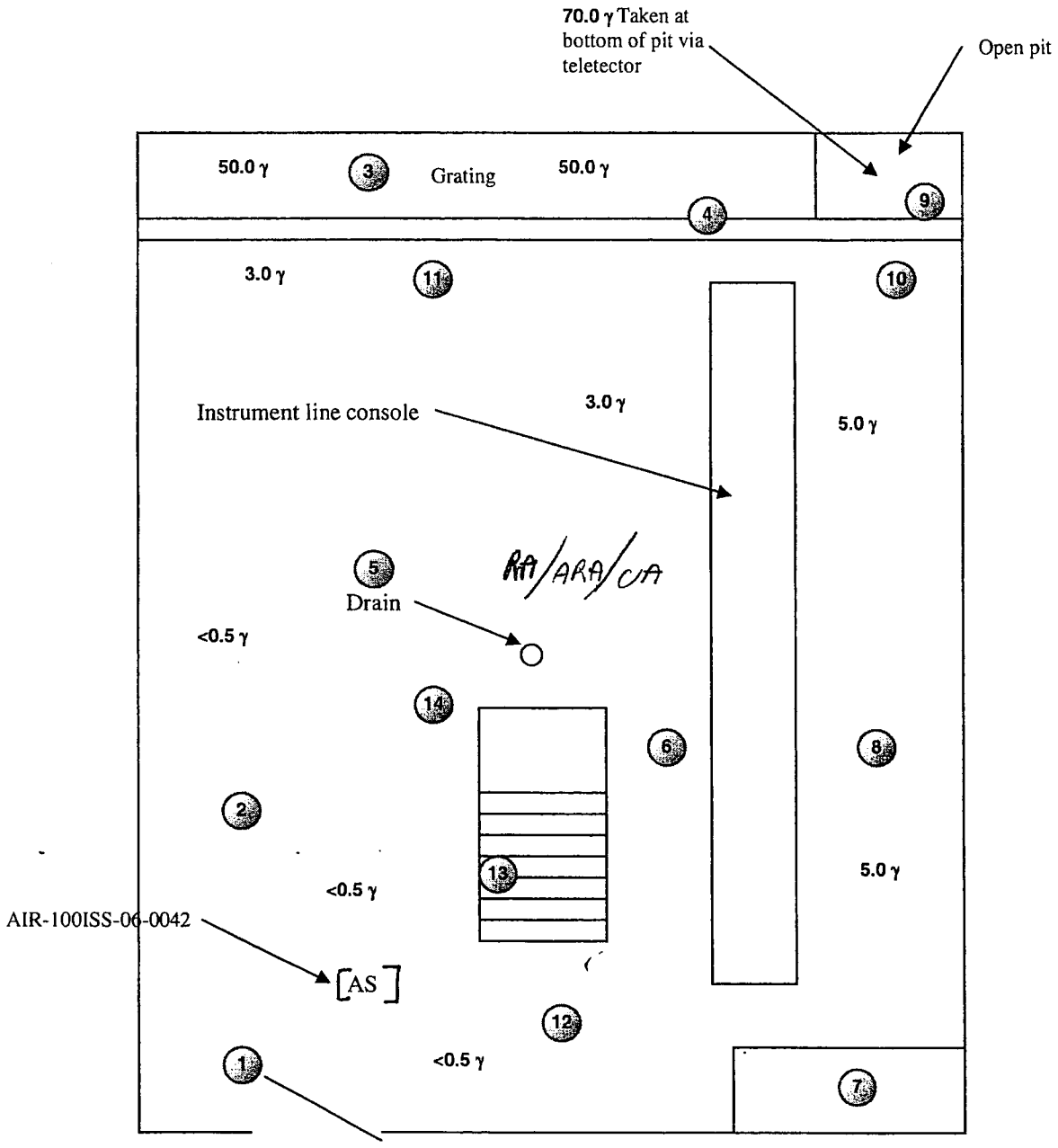
Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0075 DTLLC-0086 \6/21/2007	α	0.2	.360
	βγ	65	.230

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
1	FLOOR	α	1	4	3.8	10.6
		βγ	1	296	231	1016
2	FLOOR	α		4	3.8	10.6
		βγ		742	677	2979
3	TRENCH GRATING	α		0	0	<20
		βγ		68	3	13.0
4	TRENCH CONCRETE	α		3	2.8	8.0
		βγ		342	277	1219
5	FLOOR DRAIN	α		3	2.8	8.0
		βγ		988	923	4101
6	FLOOR	α		2	1.8	5.0
		βγ		319	254	1118
7	CONCRETE BUNKER	α		2	1.8	5.0
		βγ		347	282	1241
8	FLOOR	α		2	1.8	5.0
		βγ		770	705	3102
9	SIDEWALL OF SUMP	α		0	0	<20
		βγ		263	198	871
10	FLOOR	α		5	4.8	13.0
		βγ		871	806	3546
11	FLOOR	α		0	0	<20
		βγ		292	227	1219
12	FLOOR	α		3	2.8	8.0
		βγ		425	360	1584
13	HANDRAIL	α		0	0	<20
		βγ		84	19	84
14	FLOOR	α		2	1.8	5.0
		βγ		391	329	1448

RADIOLOGICAL SURVEY RECORD (continuation)

Survey # RSR-100ISS-06-0078

Additional Information
(Drawing, Map, Etc.)



Building 105N – 1st floor right inner rod room

Sample AIR-100iss-06-0043 taken in outer rod room

RADIOLOGICAL SURVEY RECORD

Page 1 of 3

Type of Survey (check one only)
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment
* The potential for internal contamination was evaluated.

Survey # RSR – 100155-06-0084

RWP # / Rev. #	Date	Time	Location Code
100155-06-001 r4	8-22-06	1130	100N

Description Left Outer Rod Room entry for engineer walkdown

Items released IAW WCH 200 4.4
Engineer escorted by RCT, never entered field > 1 mrem/hr

All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-0015

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary x-----x-----x | Δ Micro Rem (μR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
RO-20	1321	R	1	3-8-07					
2224-2 43-93	0045 0136	R	6.72 208	2-27-07					

RCT Name/Signature/Date:
CE Olsen 8-22-06

RCT Supervisor Name/Signature/Date:
M Sims 8-31-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
NA									NA
NA									NA

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
Walkthrough General Area	NA	<0.5	NA	<0.5
NA				NA
NA				NA

RADIOLOGICAL SURVEY RECORD
(continuation)
Smear Counting Results

Survey # RSR- 100ISS-06-0084

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0071 DTLL6-0083 3/8/2007	α	0.08	.360
	βγ	63	.220

Sample			Counting Results			Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Camera	α	1	3	2.92	8.11
		βγ	1	47	0	0
2	Yellow Flashlight	α	1	2	1.92	5.33
		βγ	1	66	3	13.6
*1 3	Red Flashlight	α	1	10	9.92	27.6
		βγ	1	76	13	59.1
4	SOP	α		1	0.92	2.56
		βγ		58	0	0
5	RBA	α		2	1.92	5.33
		βγ		58	0	0
6	RBA	α		0	0	0
		βγ		70	7	31.8
7	RBA	α		1	0.92	2.56
		βγ		67	4	18.2
8	RBA	α		1	0.92	2.56
		βγ		49	0	0
*2 9	Red Flashlight	α	1	3	2.92	8.11
		βγ	1	64	1	4.55
NA		α				NA
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
NA		α				
		βγ				

*1 Smear held for decay, initial count @ 1000 8/22/06

*2 Smear counted after 1 hour decay @ 1100 8/22/06

RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)	Survey #
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment * The potential for internal contamination was evaluated.	RSR– 100ISS-06-0086

RWP # / Rev. #	Date	Time	Location Code
100ISS-06-001/04	8/23/06	1600	100N

Description
Left Inner Rod Room Rad Survey

Radiation and Contamination Survey of the Left Inner Rod Room inside 105N.

Area Posted HRA/ARA/CA Due to unknown conditions entered area in Two pair of anti C's and PAPR per RCS. Found one localized area in catch basin on 1st level of inner Rod Room with HCA levels, smear # 7.

SEE MAP FOR DETAILS

Instruments used RO20 1506 CDD 7-21-06

All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated. Technical Assessment # TA-04-SR-01/5

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	Radiological Boundary X-----X-----X	Δ Micro Rem (μR/hr)	N Neutrons (mRem/hr)	[AS] Air Sample Location	SCA Soil Contamination Area	RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
Electra/DP6	0001/0049	BH	20	5-31-07	2929	147743	BH	2.7	12-15-06
PAM	0215/0540	BH	6.7	7-20-07	43-10-1	170381	BH	5	6-21-07

RCT Name/Signature/Date:
BRANDON HAMILTON 8-23-06
CHUCK OREM 8-23-06

RCT Supervisor Name/Signature/Date:
8-31-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm^2)				Total (dpm/100 cm^2)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
O	Smear #7 catch basin 1st level	94	6.7	422k	20	NA	NA	NA	NA
NA									

Corrected Dose Rate Calculations

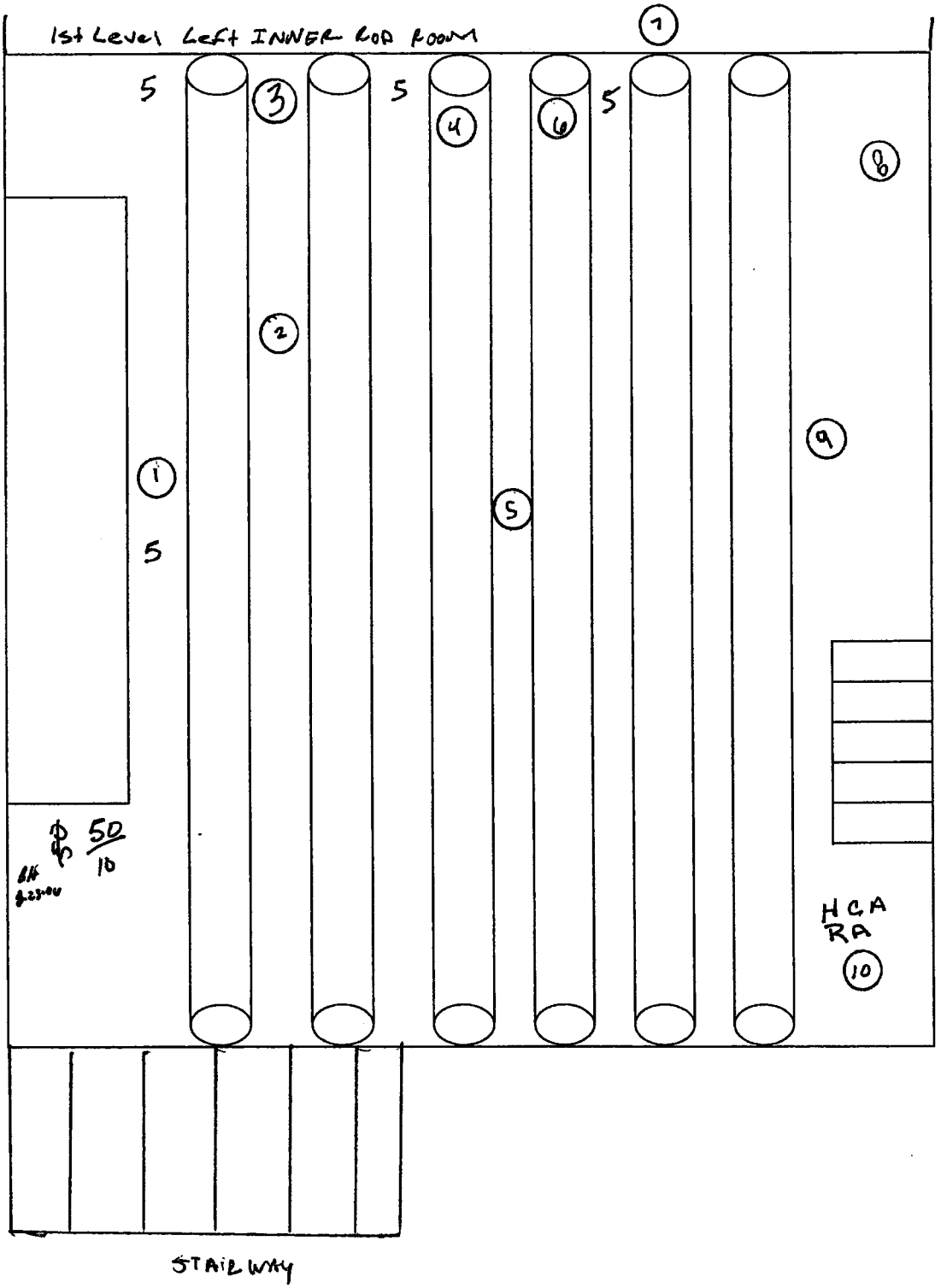
Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
1st Level	NA	50	NA	10
2nd Level	NA	110	NA	20
2nd level	NA	20	NA	5
3rd level	NA	30	NA	15
3rd level	NA	7	NA	3

ERC RADIOLOGICAL SURVEY RECORD (continuation)

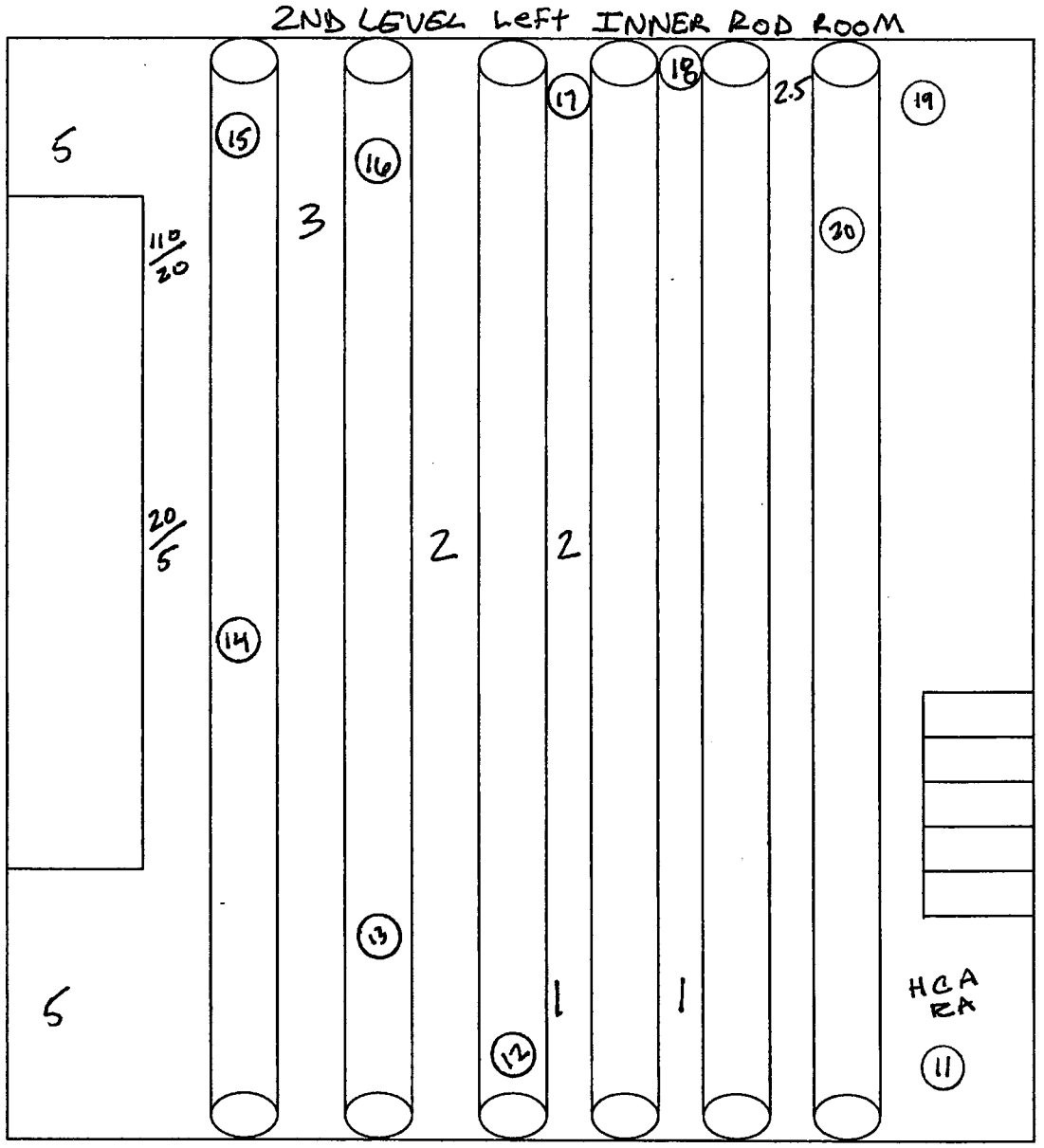
Survey # RSR- 100355-06-0086

Additional Information
(Drawing, Map, Etc.)



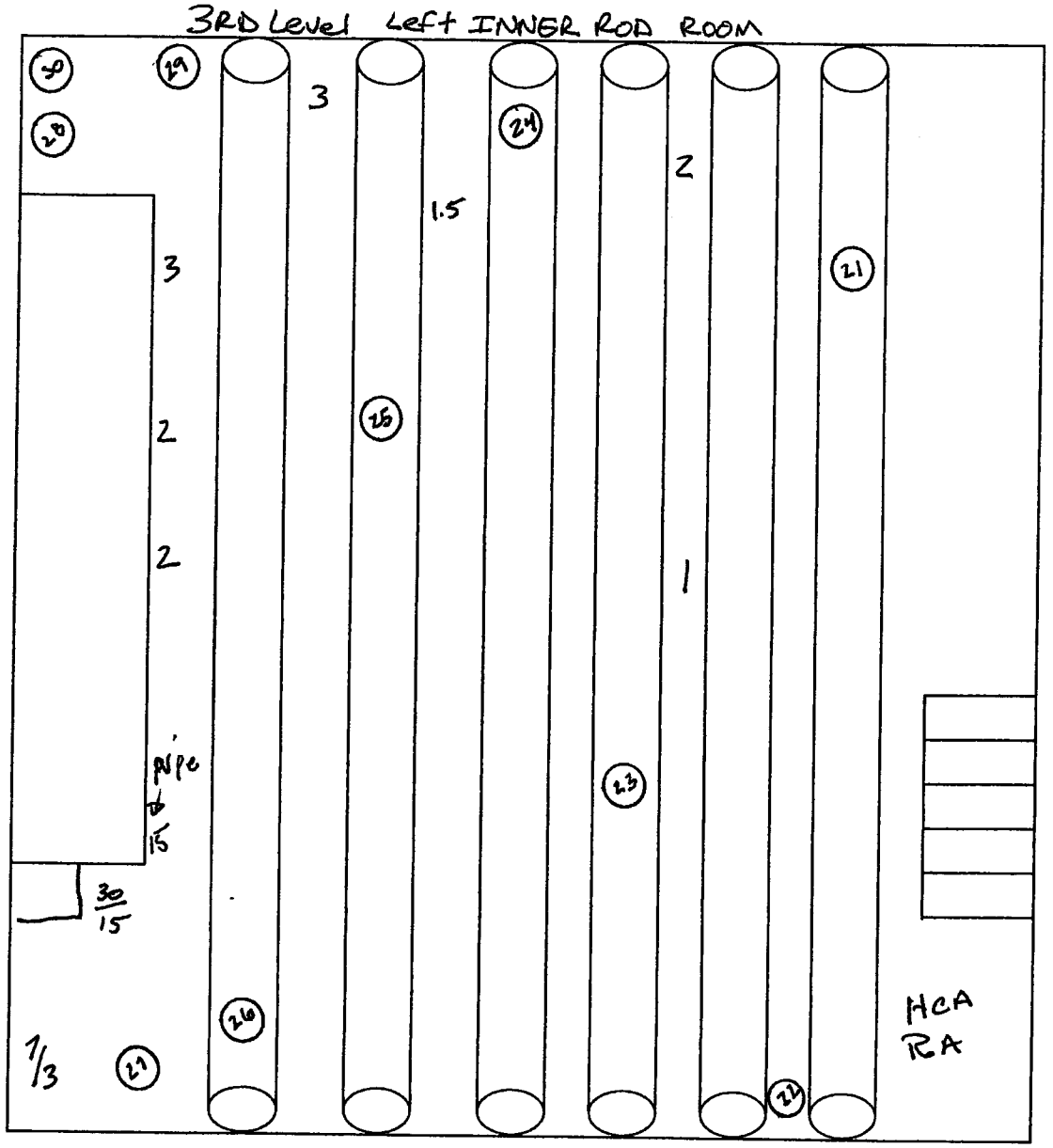
ERC RADIOLOGICAL SURVEY RECORD (continuation)	Page: 4 of 8 Survey # RSR- 100155-06-0086

Additional Information
(Drawing, Map, Etc.)



ERC RADIOLOGICAL SURVEY RECORD (continuation)	Page: 5 of 8 Survey # RSR- 100I35-06-0086

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0086

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019 DTLLC-0042 12/15/2006	α	0.2	.370
	βγ	60	.200

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	SEE LOCATION ON MAP	α	1	3	2.8	7.6
		βγ	1	647	587	2935
2		α		6	5.8	15.7
		βγ		525	465	2325
3		α		3	2.8	7.6
		βγ		651	591	2955
4		α		0	0	0
		βγ		323	263	1315
5		α		0	0	0
		βγ		1161	1101	5505
6		α		2	1.8	4.9
		βγ		764	704	3520
7	N/A	α				N/A
		βγ				
8	SEE LOCATION ON MAP	α	1	2	1.8	4.9
		βγ	1	1794	1734	8670
9		α		0	0	0
		βγ		572	512	2560
10		α		1	0.8	2.2
		βγ		286	226	1130
11		α		3	2.8	7.6
		βγ		412	352	1760
12		α		4	3.8	10.3
		βγ		1631	1571	7855
13		α		8	7.8	21.1
		βγ		2931	2871	14355
14		α		5	4.8	13.0
		βγ		179	119	595

Smear #7 counted w/ portable instrument and disposed of

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Survey # RSR- 100ISS-06-0076

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019	α	0.2	.370
DTLLC-0042	βγ	60	.200
12/15/2006			

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
15	SEE LOCATIONS ON MAP	α	1	0	0	0
		βγ	1	176	116	580
16		α		2	1.8	4.9
		βγ		396	336	1680
17		α		0	0	0
		βγ		353	293	1465
18		α		4	3.8	10.3
		βγ		980	920	4600
19		α		2	1.8	4.9
		βγ		2986	2926	14630
20		α		1	0.8	2.2
		βγ		408	~~346~~ 8-23-06 348	1740
21		α		1	0.8	2.2
		βγ		224	164	820
22		α		0	0	0
		βγ		215	165	825
23		α		2	1.8	4.9
		βγ		166	106	530
24		α		0	0	0
		βγ		223	163	815
25		α		0	0	0
		βγ		74	14	70
26		α		1	0.8	2.2
		βγ		184	124	620
27		α		15	14.8	40.0
		βγ		4772	4712	23560
28		α		2	1.8	4.9
		βγ		222	162	810

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Page: 8 of 8

Survey # RSR- 100ISS-06-0686

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019	α	0.2	.370
DTLLC-0042	βγ	60	.200
12/15/2006			

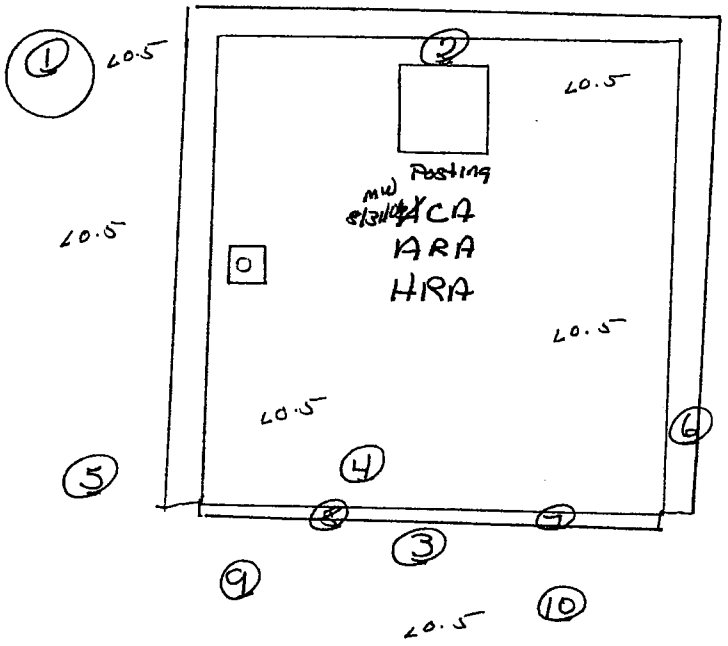
Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm^2)
29	SEE LOCATION ON MAP	α	C11	0	0	0
		βγ	C11	170	110	550
30	↓	α	↓	0	0	0
		βγ	↓	105	55	275
31	Counter CA/RBA boundary	α	↓	1	0.8	2.2
		βγ	0	59	0	0
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α		N/A		
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				
		α				
		βγ				

RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)	Survey #
☐ *Release ☐ Routine N/A ☒ Work Progress ☐ Shipment * The potential for internal contamination was evaluated.	RSR – 100ISS-06-0109

RWP # / Rev. #	Date	Time	Location Code
100ISS-06-001/4	8/31/06	0830	100N

Description: Left outer Rod Room



Ø elevation

Smears
① Sample Line
② top of door
③-⑦-⑩ floor
④-⑥-⑦-⑧ door
⑤ wall

All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated.

Technical Assessment # TA-04-SR-01/5

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

○ Technical Smear | # Direct | M Large Area Wipe | Contact / 30 cm General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | Radiological Boundary X-----X-----X | Δ Micro Rem (µR/hr) | N Neutrons (mRem/hr) | [AS] Air Sample Location | SCA Soil Contamination Area | RMSA Radioactive Material Storage Area

Instruments

Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date	Model	Serial #	Source ✓ (Initial)	CF	Cal Due Date
2929 / 43-10	0019 / 0042	mw	2.7 / 0.5	12/15/06	2360 / 43-93	0001 / 0104	mw	6.67 / 6.5 / 7.1/100	12/10/06
RO 20	1506	mw	NA	7/21/07			NA		

RCT Name/Signature/Date: MQ. Williams / MQ. Williams 8/31/06

RCT Supervisor Name/Signature/Date: RON CUEVAS 11-14-06

RSR completed in accordance with RC-200-4.2, RC-200-4.3, and/or RC-200-4.4 as applicable

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
	See Attached					NA			

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR

RADIOLOGICAL SURVEY RECORD (continuation)

Smear Counting Results

Page: 3 of 3

Survey # RSR- 100ISS-06-0109

Counter Location:	Background (cpm)		Counter Eff.
SCLL4-0019 DTLLC-0042 12/15/2006	α	0.2	.370
	βγ	60	.200

Sample		Counting Results				Final Analysis
No	Description of Smear Location	Con. Type	Sample Count Duration (min.)	Gross CPM	Net CPM	Removable (dpm 100 cm²)
1	Sample Lines	α	1	1	1	3
		βγ	1	96	36	180
2	top of door	α		1	1	3
		βγ		91	31	155
3	Floor	α		0	0	0
		βγ		122	62	310
4	Bottom of door	α		1	1	3
		βγ		180	120	600
5	wall	α		1	1	3
		βγ		96	36	180
6	Door Jam	α		3	3	8
		βγ		77	17	85
7	under door	α		0	0	0
		βγ		58	0	0
8	Door sill	α		4	4	11
		βγ		106	46	230
9	Floor	α		0	0	0
		βγ		71	11	55
10	Floor	α	1	0	0	0
		βγ	1	89	29	145
11		α				
		βγ				
12		α				
		βγ				
13		α				
		βγ				
14		α				
		βγ				

10

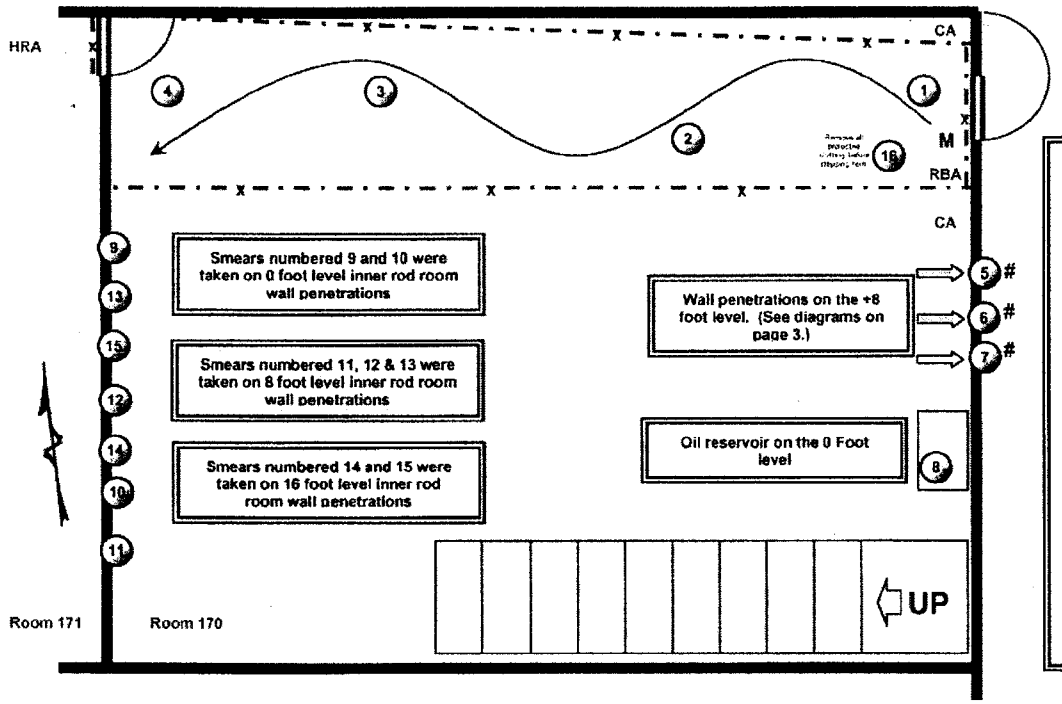
RADIOLOGICAL SURVEY RECORD

Type of Survey (If release, no other boxes can be checked)			Survey #
☒ Routine D1, W2, W4, W15	☒ Work Progress	☐ Release ☐ Shipment	RSR–100ISS-08-0615
RWP # / Rev. #	Date	Time	Location
100ISS-08-003/ 01	10-08-2008	1515	100N

Description
105N Room 170 Left Outer Rod Room

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07/ 5

Room 170 Left Outer Rod Room Survey with Routines
(Only main floor is depicted for clarity.)



Survey was performed to enter the CA and remove wall plugs on the +8 foot level of the outer rod room wall. Plugs (see page 3), will be removed to accommodate HEPA exhauster flow during abatement activities. The plugs, approximately 8" diameter and 18" long were surveyed upon removal, and no fixed or removable contamination was located on the plugs or inside the holes.
Routine surveys were then performed in the area encompassing the following routines:
D1 Daily SOP Contamination Survey,
W2 & W4 RBA Contamination and CA Boundary Contamination Survey,
W15 Active CA Contamination Survey.
No fixed or removable contamination was found.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x-----x-----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
L-2360/43-93	SCLL8-0076/DTLLP-0177	02-20-2009	NA	NA	NA
L-2360/43-93	SCLL8-0077/DTLLP-0178	05-09-2009	NA	NA	NA
NA	NA	NA	NA	NA	NA

RCT Name/Signature/Date:
D.L. Poteet/ /10-08-2008
G.L. Eppling/ /10-08-2008

RCT Supervisor Name/Signature/Date:
10-13-08

RCT signature indicates instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR -100ISS-08-0615

Contamination Measurement Information

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
(All)	All Smear Survey Locations	< 20	7	< 1,000	20	NA	NA	NA	NA
M, #	All LAW's and Direct Surveys	NA	NA	< 1,000	20	< 500	7	< 5,000	20
			N						
				A					

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

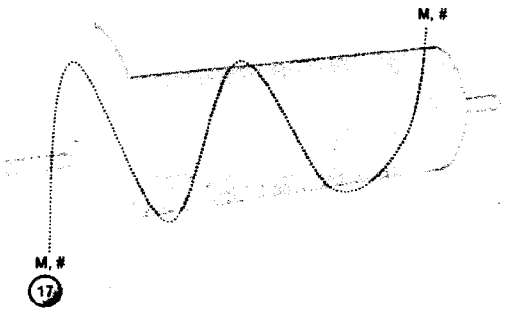
Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

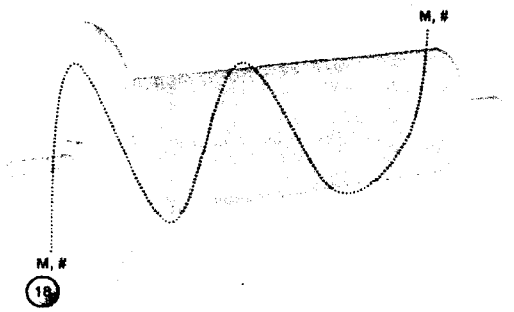
Additional Information

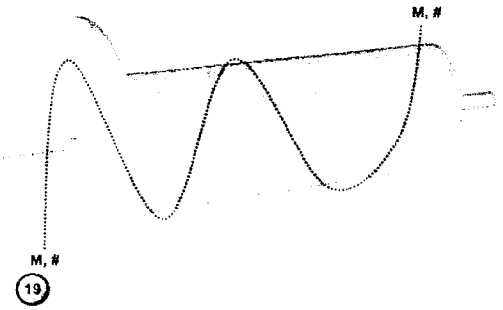
(Drawing, Map, Etc.)

Continuation of Room 170 Left Outer Rod Room

Survey of Plugs Removed from ORR Walls, (X3)







RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine NA	☒ Work Progress	RSR –100ISS-10-0326

RWP # / Rev. #	Date	Time	Location
NA	04-13-2010	1045	100N

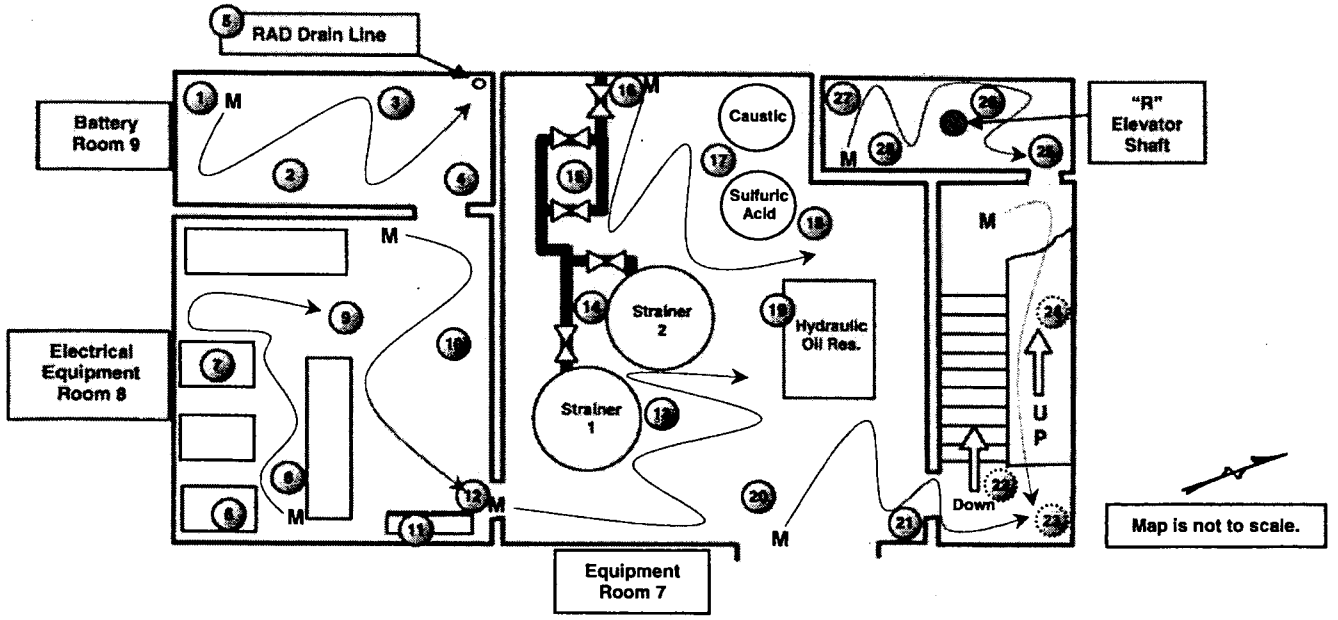
Description: Survey for Closure of Rooms 7,8,& 9, "R" Elevator Shaft

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

TA-07-SR-07/Rev. 7

Survey of -16 Foot Level of 105N, Rooms 7,8 & 9, and Stairwell 6 to the "R" Elevator Shaft

A survey was performed as indicated below of the rooms as described below just prior to sealing the access to the room from the exterior. All rooms and areas are posted RMA. No removable contamination was found.



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
L-2224-3/DP-6	SCLLB-0178/DTNE2-0138	07-06-10	NA	NA	NA
L-2224-3/DP-6	SCLLB-0164/DTNE2-0012	07-06-10	NA	NA	NA
NA	NA	NA	NA	NA	NA

RCT Name/Signature/Date:

G.L. Eppling/ /04-13-2010

RCT Supervisor Name/Signature/Date:

F. MORAN 5-27-10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR -100ISS-10-0326

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O	All Smears	< 20	7	< 1,000	10	NA	NA	NA	NA
M	All Large Area Wipes	NA	NA	< 1,000	10	NA	NA	NA	NA
			N						
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

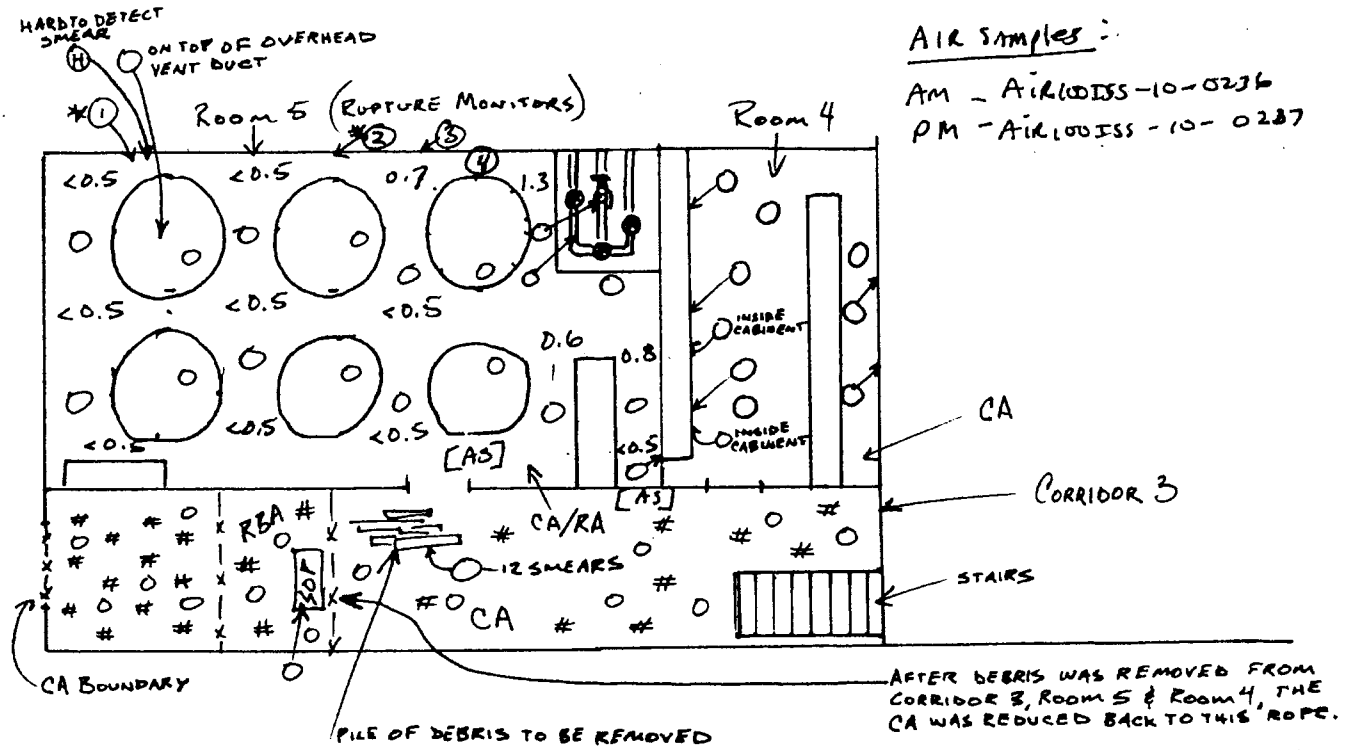
RADIOLOGICAL SURVEY RECORD

Type of Survey			Survey #
☑ Routine D, W2, W4, W6, W13, W14, W15 ☑ Work Progress			RSR – 100ISS-10-0327
RWP # / Rev. #	**Date**	**Time**	**Location**
100ISS-10-002/00	04-13-2010	1600	100N

Description 105N - CORRIDOR #3 CLEAN UP

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 REV. 7

*= USED TO FULLFILL REQUIREMENTS FOR EASY-TO-DETECT WEEKLY ROUTINE.



AIR SAMPLES:
AM - AIR100ISS-10-0236
PM - AIR100ISS-10-0237

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area			
○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x	

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3/DP6BD	0158 / 0102	09-08-2010	LSHI-0002	HIDEX 425-034	02-05-2011
2224-3/DP6BD	0155/0013	04-03-2011	2929/43-10-1	0019 / 0042	10-31-2010
RO-20	ICEB4-1282	02-26-2011	N/A		

RCT Name/Signature/Date:
J.B. HOLCOMBE 13 4-13-10 / 04-19-2010
J.A. POWELL 4/13/2010

RCT Supervisor Name/Signature/Date:
F. MORON 4.19.10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100155-10-0327

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
①	TOP OF SHIELD DOORS	35	7	16K	10	N/A	N/A	N/A	N/A
②	SHIELD DOORS	42	7	8.5K	10				
③	LEDGE ABOVE SHIELD DOORS	28	7	3K	10				
④	FLOOR AT SHIELD DOORS	28	7	6.7K	10				
Ⓗ	TOP OF SHIELD DOORS	N/A	N/A	<1K	3.8				
#	ALL DIRECT READINGS	N/A	→	→	→	<500	7	<5K	10
				N					
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		N		
		A		

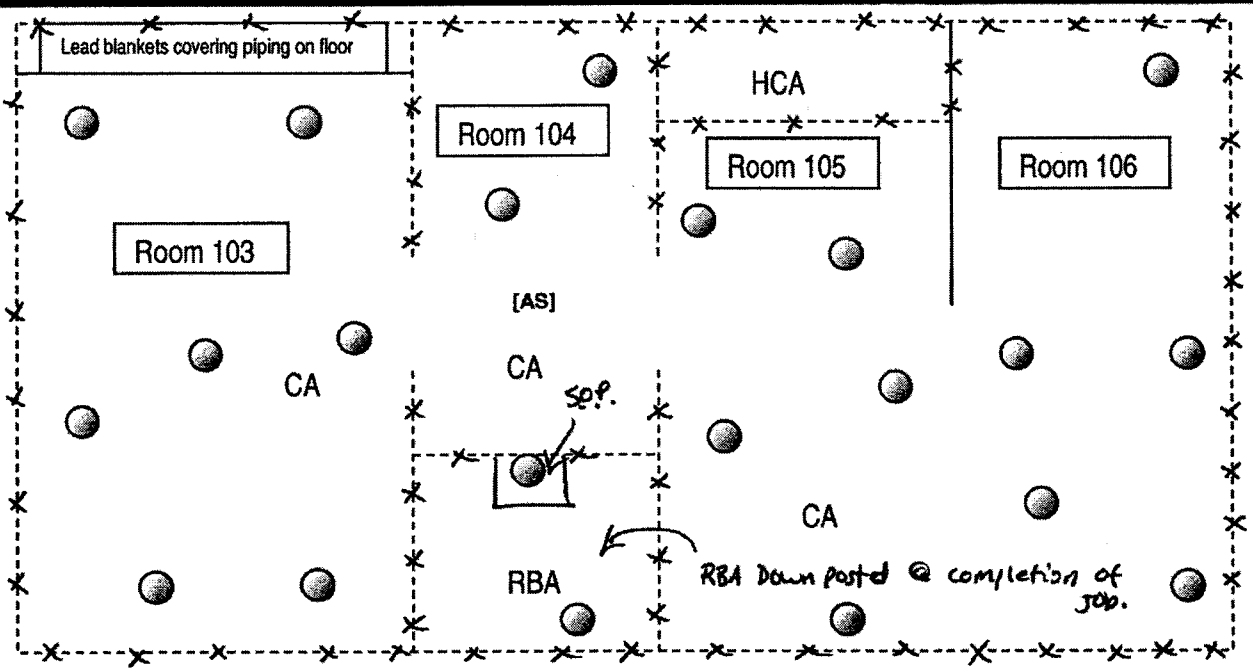
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☒ Routine D1,W2,W4,W15	☒ Work Progress	RSR – 100ISS-10-0697

RWP # / Rev. #	Date	Time	Location
100ISS-10-001 rev.00	07/27/2010	1600	100N/109N

Description
Final cleanup and closure of rooms 103,104,105 and 106

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 Rev. 7



AIR100ISS-10- 0650 (Work Area sample) moved within 6 ft. of work being performed. Trash removed from rooms and placed in ERFD can on the south side of 109N.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360 / 43-93	SCLLB-0075 / DTLLP-0176	02/20/2011			
		N			
			A		

RCT Name/Signature/Date:
J. A. Powell 07/27/2010

RCT Supervisor Name/Signature/Date:
F. Moran 7-9-10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-10-0697

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
0	All smears	<20	7	<1,000	10	NA	NA	NA	NA
				N					
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine	☒ Work Progress	RSR –100ISS-10- 0125

RWP # / Rev. #	Date	Time	Location
N/A	8/4/10	1025	100N

Description
Survey of Rooms in 109N

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07-7

Perform Work Progress Survey in Rooms 208, 307, and Stairwell 7 inside the 109N Building. Performed tech smears and directs. No Contamination was found.

Was unable to survey above 8' in any of the rooms.

These areas were entered for workers to clean up area prior to door being sealed shut for cocooning.

Area is posted RMA

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x----x----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360/43-93	0075/0176	2/20/11	NA	NA	NA
N/A	N/A	N/A	NA	NA	NA
N/A	N/A	N/A	NA	NA	NA

RCT Name/Signature/Date:
Debbie Poteet 8/4/10

RCT Supervisor Name/Signature/Date:
F. MORAN 8-5-10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-10-0 735

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O,#	All Smears and Directs	< 20	7	< 1,000	10	<500	7	<5000	10

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

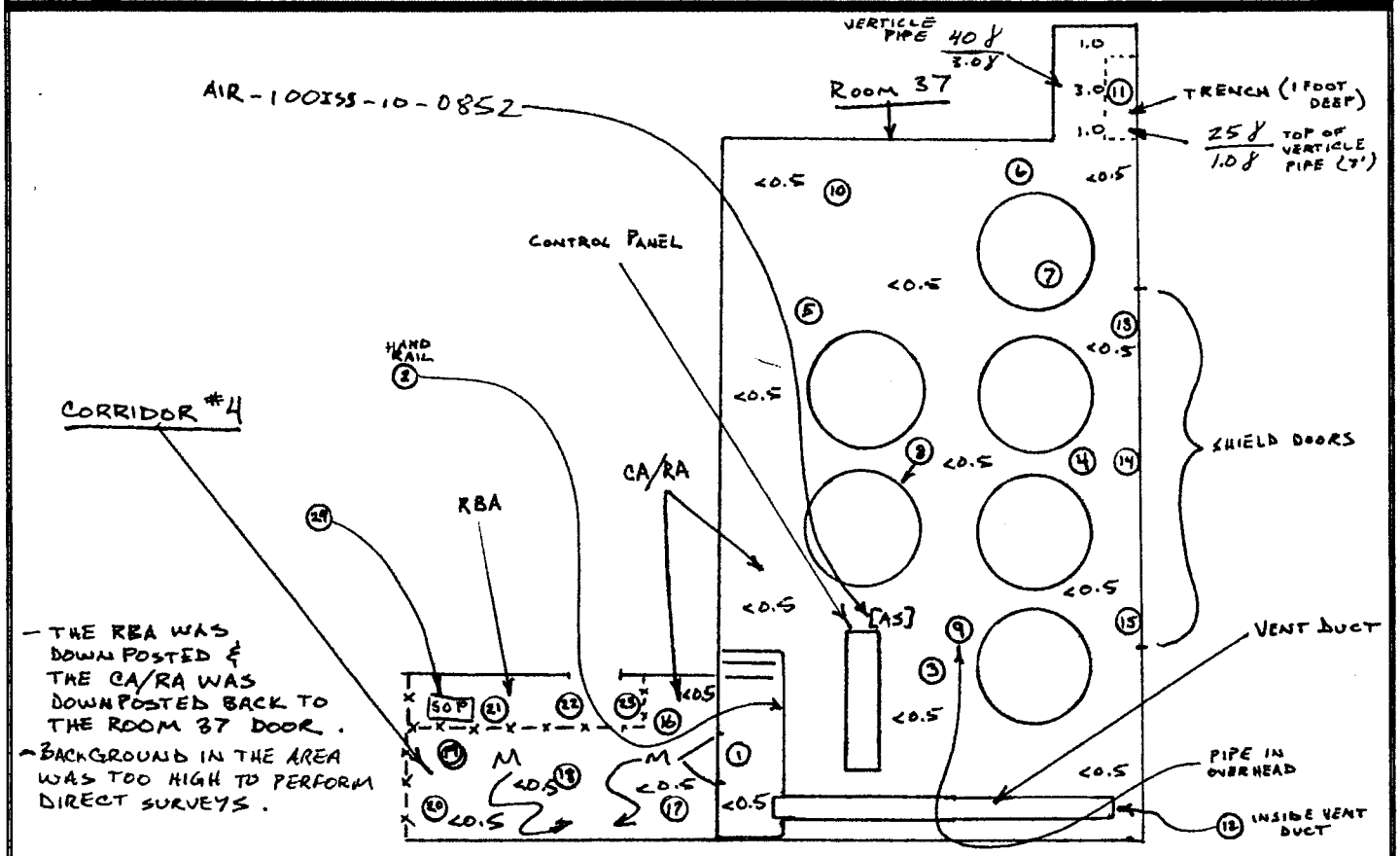
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☒ Routine D1, W2, W4, W6, W15	☑ Work Progress	RSR – 100ISS-10-0970

RWP # / Rev. #	Date	Time	Location
100ISS-10-002/00	10-14-2010	1600	100N

Description: 105N - Room 37 CLEAN UP/DEBRIS REMOVAL

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 REV. 07



- THE RBA WAS DOWN POSTED & THE CA/RA WAS DOWNPOSTED BACK TO THE ROOM 37 DOOR.
- BACKGROUND IN THE AREA WAS TOO HIGH TO PERFORM DIRECT SURVEYS.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x-----x-----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360/43-93	0078/0179	08-10-2011	N/A		
2360/43-93	0075/0176	02-20-2011	N/A		
RO-20	1282	02-26-2011	N/A		

RCT Name/Signature/Date:
J.B. HOLCOMBE / 10-14-2010
D. POTEET / 10-14-10

RCT Supervisor Name/Signature/Date:
10/18/10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-10-0970

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
(12)	INSIDE VENT DUCT	< 20	7	1K	10	N/A			
(14)	FLOOR IN FRONT OF SHIELD DOORS	< 20	7	1K	10	N/A			
(15)	FLOOR IN FRONT OF SHIELD DOORS	< 20	7	4K	10	N/A			
O	ALL OTHER TECH SMEARS	< 20	7	< 1K	10	N/A			
				N					
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
7' HIGH ON VERTICLE PIPE	$(5-5)\times\frac{6}{6}=<0.5$ 10-18-10	5 x 5 = 25	$(1.0-1.0)\times\frac{6}{2}=<0.5$ 10-4-10	1.0 x 1 = 1.0
VERTICLE PIPE	$(8-8)\times 6 = <0.5$	8 x 5 = 40	$(3.0-3.0)\times 2 = <0.5$	3.0 x 1 = 3.0
		N		
		A		

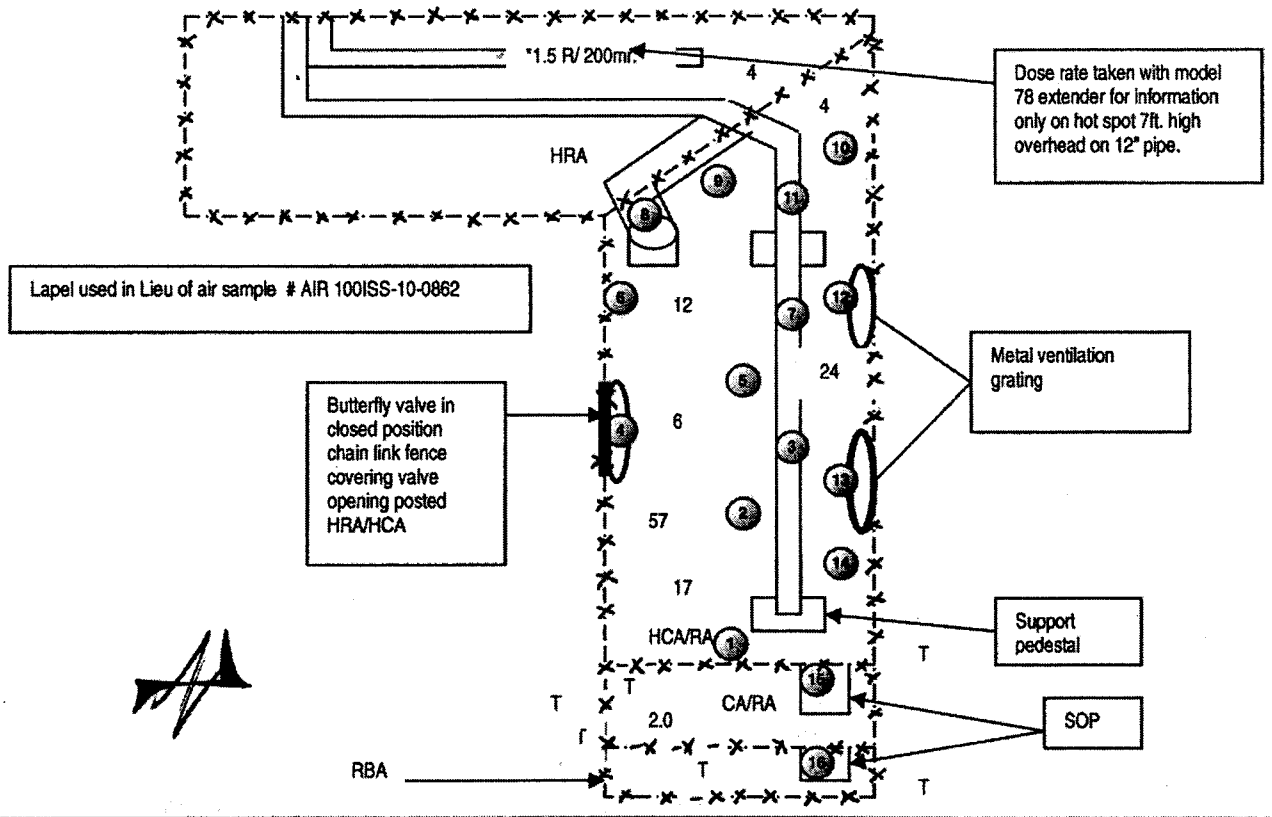
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☒ Routine D1	☒ Work Progress	RSR – 100ISS-10-0986

RWP # / Rev. #	Date	Time	Location
100ISS-10-002 Rev.00	10/19/2010	1600	100N/105N

Description
-21ft. elevation south end of FPT access tunnel.

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 Rev. 7



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
RO-20	ICEB4-1282	02/26/2011	Model 78	XELL2-0012	01/12/2011
2360 / 43-93	SCLL8-0082 / DTLLP-0183	06/24/2011	NA	NA	NA
NA	NA	NA	NA	NA	NA

RCT Name/Signature/Date:
J.A. Powell 10/19/2011

RCT Supervisor Name/Signature/Date:
J. King 10/20/10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-10-0986

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1-2	Concrete floor	21	7	7K	10				
T	Dirt on ground	<20		<1K					
3	36" piping	280		23K					
4	I/S diversion valve	<20		5K					
5	Concrete Floor	<20		5K			N		
6	Concrete Floor	42		3K					
7	36" piping	<20		2.4K					
8	Valve	<20		9.5K				A	
9-10	Concrete Floor	<20		2.7K					
11	36" piping	<20		17K					
12-13	Metal ventilation grating	224		640K					
14	Concrete Floor	<20		2K					
15-16	SOP	<20	7	<1K	10				

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
See page 1 for General area dose rates				
		N		
		A		

RADIOLOGICAL SURVEY RECORD

Page 1 of 4 (4 of 4 per 10-1)

Type of Survey		Survey #
☑ Routine D1, W2, W4, W6, W15	☑ Work Progress	RSR – 100ISS-10-1032

RWP # / Rev. #	Date	Time	Location
100ISS-10-002/00	10-27-2010	1600	100N

Description: 105N - Room 35 PIPE TUNNEL DUCT & SCREEN REMOVAL

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 Rev. 7

- SEE PAGE 4 (4 of 4 per 10-27-10) FOR DRAWING & DETAILS

CA Contamination Area | HCA High Contamination Area | RBA Radiological Buffer Area | ARA Airborne Radioactivity Area | [AS] Air Sample Location | RMA Radioactive Materials Area | RA Radiation Area | HRA High Radiation Area | VHRA Very High Radiation Area

O Technical Smear | # Direct | M Large Area Wipe | T Transferable | General Area Dose Rates =Uncorrected Meter Reading (mR/hr) | All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated | Contact / 30 cm | N Neutrons (mRem/hr) | Δ Micro Rem (μR/hr) | SCA Soil Contamination Area | Radiological Boundary x----x----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360/43-93	0075/0176	02-20-2011	N/A		
2224-3/43-93	0099/0044	09-09-2011	N/A		
RO-20	1201	12-11-2010	N/A		

RCT Name/Signature/Date:
J.B. HOLCOMBE / [signature] / 10-27-2010
P.R. VESTAL / [signature] / 10-27-2010

RCT Supervisor Name/Signature/Date:
J. KING / [signature] 10/30/10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100155-10-1032

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
(2)	BOLTS/FLANGE AREA OF VENT DUCT	< 20	7	1.9K	10	N/A	N/A	N/A	N/A
(4)	SCREEN ON VENT DUCT	< 20	7	3.5K	10				
(5)	SCREEN ON VENT DUCT	< 20	7	25K	10				
(6)	ON VENT DUCT AFTER SCREEN WAS REMOVED	< 20	7	10K	10				
(7)	ON VENT DUCT AFTER SCREEN WAS REMOVED	< 20	7	37K	10				
(8)	FLOOR	28	7	2.1K	10				
(9)	FLOOR	< 20	7	15K	10				
(10)	FLOOR	< 20	7	1.5K	10				
(11)	FLOOR	< 20	7	3K	10				
(12)	FLOOR	< 20	7	1.4K	10				
(13)	FLOOR UNDER DUCT	100	7	50K	10				
(14)	FLOOR	77	7	14K	10				
(15)	FLOOR	< 20	7	1.6K	10				

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		N		
		A		

dH 10-27-10

RADIOLOGICAL SURVEY RECORD (continuation)

Contamination

Survey # RSR 100ESS-10-1032

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
(16)	AROUND THREADED STUDS AFTER DUCT REMOVAL	< 20	7	18K	10	N/A	N/A	N/A	N/A
(17)	AROUND THREADED STUDS AFTER DUCT REMOVAL	< 20	7	12K	10				
(18)	AROUND THREADED STUDS AFTER DUCT REMOVAL	< 20	7	7K	10				
(19)	AROUND THREADED STUDS AFTER DUCT REMOVAL	< 20	7	6K	10				
(20)	ON WALL UNDER DUCT AFTER REMOVAL	< 20	7	3K	10				
(24)	ON CONCRETE SLAB	< 20	7	3.5K	10				
◯	ALL OTHER TECH SMEARS	< 20	7	< 1K	10				
				N					
				A					

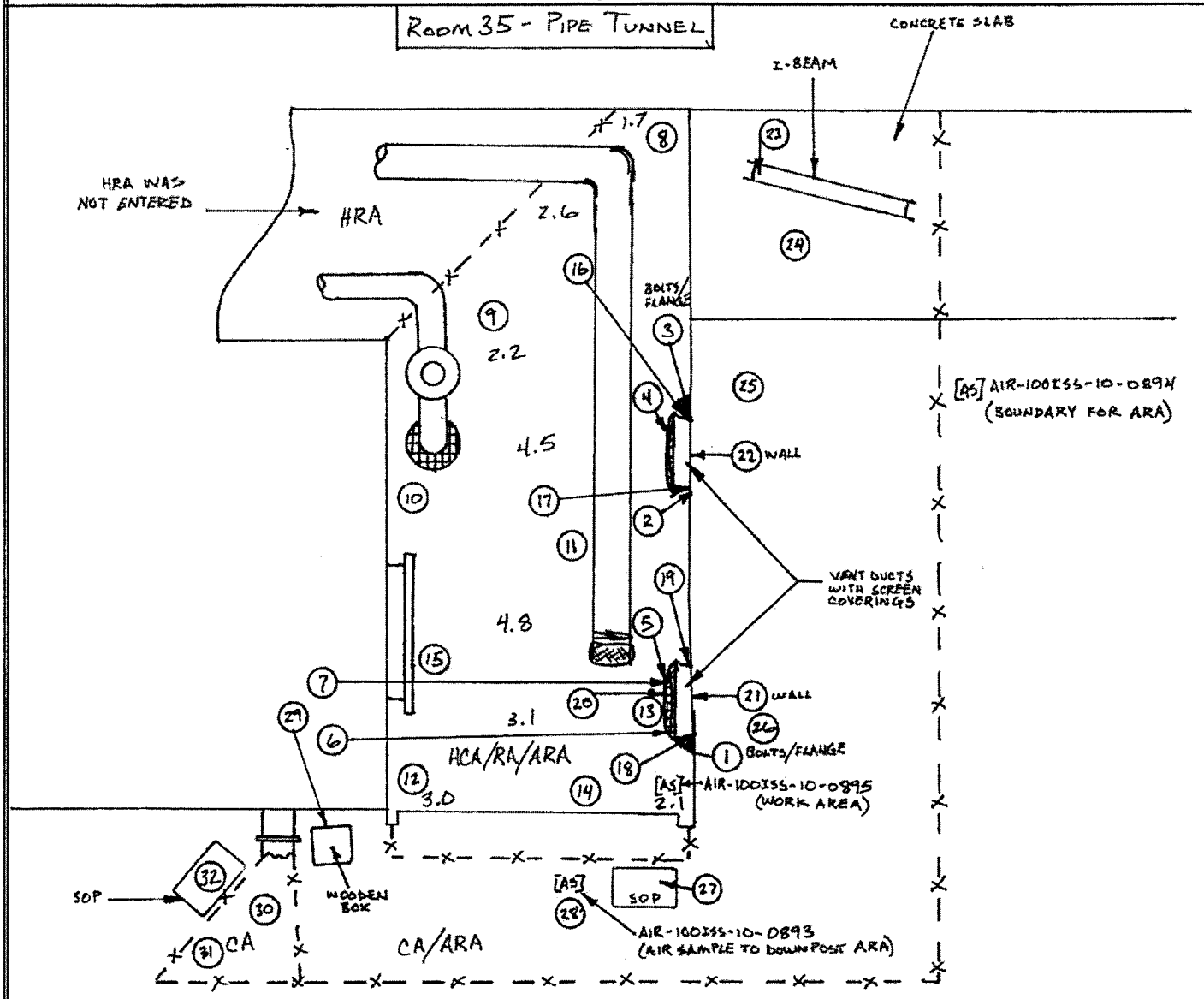
[1]Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

RADIOLOGICAL SURVEY RECORD (continuation)

Survey # RSR 100ESS-10-1032

Additional Information

(Drawing, Map, Etc.)



- SMEARS 16-31 WERE TAKEN AFTER THE VENT DUCTS & SCREENS WERE REMOVED.
- THE CA & ARA WERE DOWNPOSTED.
- THE PIPE TUNNEL (ROOM 35) WAS DOWNPOSTED FROM AN HCA TO A CA. THE PIPE TUNNEL IS CURRENTLY POSTED CA/RA. THE BACK OF THE TUNNEL AT THE CORNER IS POSTED HRA.
- BACKGROUND IN THE AREA WAS TOO HIGH TO PERFORM DIRECT READINGS.
- THE OBJECTIVE OF THIS WORK WAS TO REMOVE TWO PIECES OF VENT DUCT FROM THE WALL THAT HAD SCREEN COVERINGS ON THE OPENINGS. BOTH DUCTS & SCREENS WERE REMOVED AND PLACED INTO AN ERDF CAN.

RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine	☒ Work Progress	RSR – 100ISS-10-1253

RWP # / Rev. #	Date	Time	Location
100ISS-10-002 rev.00	12/28/2010	1400	100N/105N

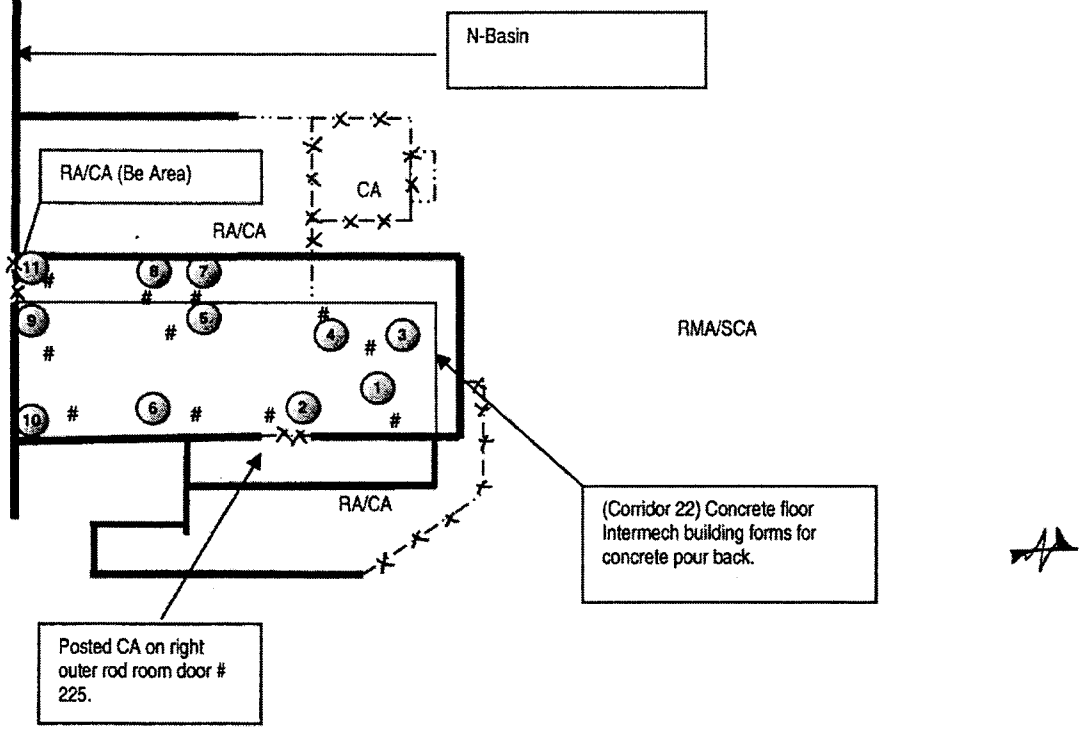
Description

Survey of corridor 22 (Oft. Elevation) FCA-0007

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

TA-07-SR-07 rev.7

Note: direct readings taken for information only with shielded P-210 probe due to high background.



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x----x----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360	SCLL8-0080	07/06/2011	43-93	DTLLP-0181	07/06/2011
Ludlum 12	CMLL1-0048	04/15/2011	HP-210	DTEB5-0173	02/06/2011
NA	NA	NA	NA	NA	NA

RCT Name/Signature/Date:

J.A. Powell 12/28/2010

RCT Supervisor Name/Signature/Date:

12-29-10

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-10-1253

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1-2	Concrete floor (corridor 22)	<20	7	<1K	10	NA	NA	<5K	10
3		<20	7	<1K	10	NA	NA	<5K	10
4		<20	7	<1K	10	NA	NA	18K	10
5		<20	7	<1K	10	NA	NA	<5K	10
6		<20	7	<1K	10	NA	NA	<5K	10
7		<20	7	<1K	10	NA	NA	55.2K	10
8		<20	7	<1K	10	NA	NA	925K	10
9		<20	7	<1K	10	NA	NA	20K	10
10		<20	7	<1K	10	NA	NA	<5K	10
11	Electrical conduit	<20	7	<1K	10	NA	NA	<5K	10
			N						
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

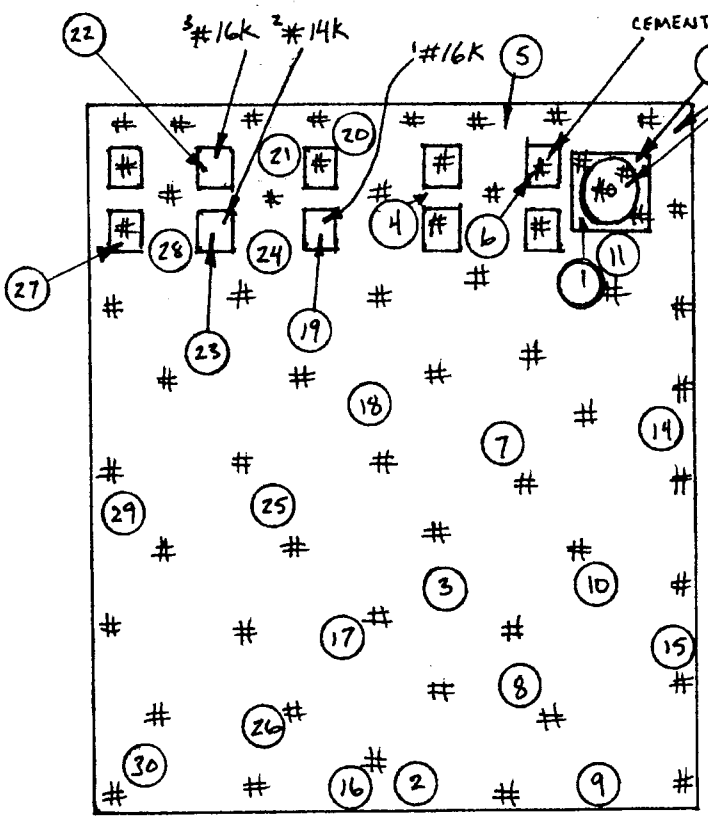
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine	☑ Work Progress	RSR – 100ISS-11-0104

RWP # / Rev. #	Date	Time	Location
100ISS-10-002/01	04-06-2011	1030	100 N

Description: 105N – FINAL SURVEY ON PRESSURIZER ROOF

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 REV. 7



- THIS IS A CONTAMINATION & RADIATION SURVEY ON THE ROOF OF THE PRESSURIZER PRIOR TO INTERMECH COMPLETING CONSTRUCTION OF THE SSE ROOF.
- ALL RADIATION SURVEYS ON THE PRESSURIZER ROOF WERE <0.5mR/hr.
- NO REMOVABLE CONTAMINATION WAS FOUND.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2360/43-93	0081/0182	12-21-2011	N/A		
2224-3/43-93	0080/0090	08-10-2011	N/A		
RO20	1257	12-22-11	N/A		

RCT Name/Signature/Date: J. B. HOLCOMBE /04-06-2011

RCT Supervisor Name/Signature/Date: 04/08/2011
MICHAEL T. WRIGHT

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100155-11-0104

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
○	ALL TECH SMEARS	<20	7	<1K	10	N/A →			
1#	TOP OF CONCRETE PEDESTAL	N/A →				<500	7	16K	10
2#	TOP OF CONCRETE PEDESTAL	N/A →				<500	7	14K	10
3#	TOP OF CONCRETE PEDESTAL	N/A →				<500	7	16K	10
#	ALL OTHER DIRECT READINGS	N/A →				<500	7	<5K	10
				N A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
		N A		

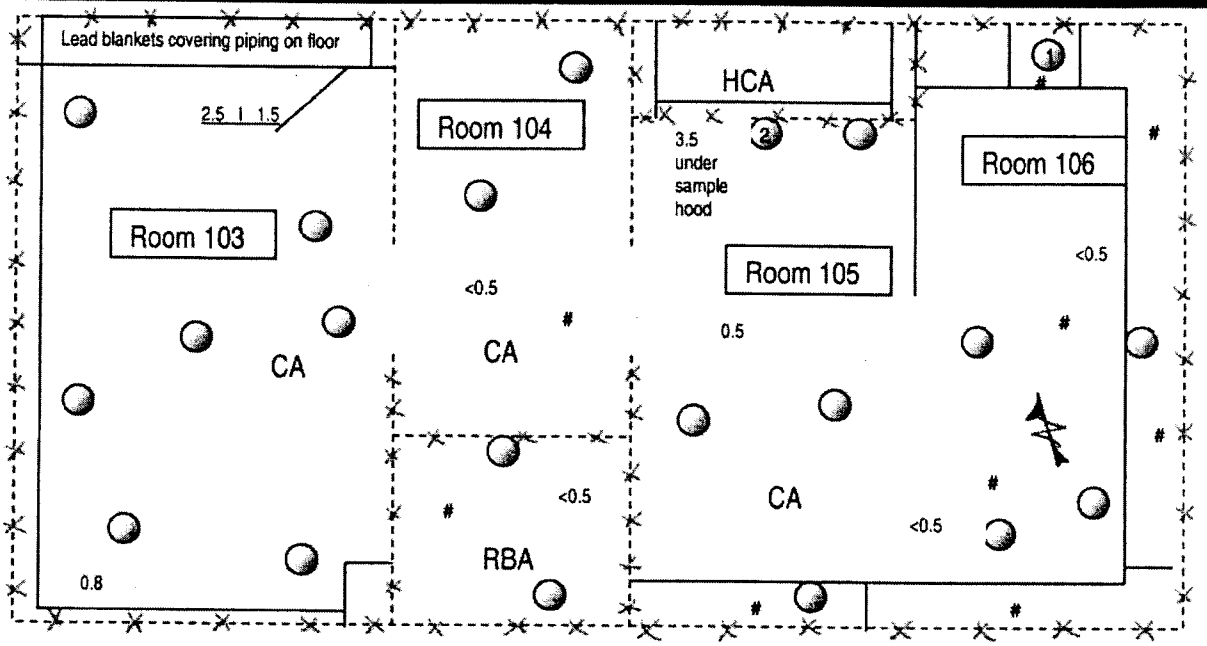
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☒ Routine D1,W2,W4,W15	☒ Work Progress	RSR – 100ISS-11-0164

RWP # / Rev. #	Date	Time	Location
100ISS-10-001 rev.01	05/04/2011	1300	100N/109N

Description
Final cleanup and Walkdown of rooms 103,104,105 and 106

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 Rev. 7



Note: No entry was made in HCA sample hood. RBA was downposted @ completion of walkdown.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area			
○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x----x----x	

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3 / 43-93	SCLLB-0149 / DTLLP-0193	08/20/2011	RO-20	1257	09/29/2011
		N			
			A		

RCT Name/Signature/Date:
J. A. Powell 05/04/2011

RCT Supervisor Name/Signature/Date:
05/17/2011
Michael T. Wright - RCS

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-11-0164

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1,#	Inside sink room 106	98	7	30K	10	<500	7	100K	10
2	Under sample hood room 105	63	7	25K	10	NA	NA	NA	NA
O	All other smears	<20	7	<1K	10	NA	NA	NA	NA
#	All other directs	NA	NA	NA	NA	<500	7	<5K	10
				N					
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
2" pipe covered with lead blankets Room 103	NA	2.5X1= 2.5	NA	1.5X1= 1.5
See page 1 for general area dose rates				
		N		
		A		

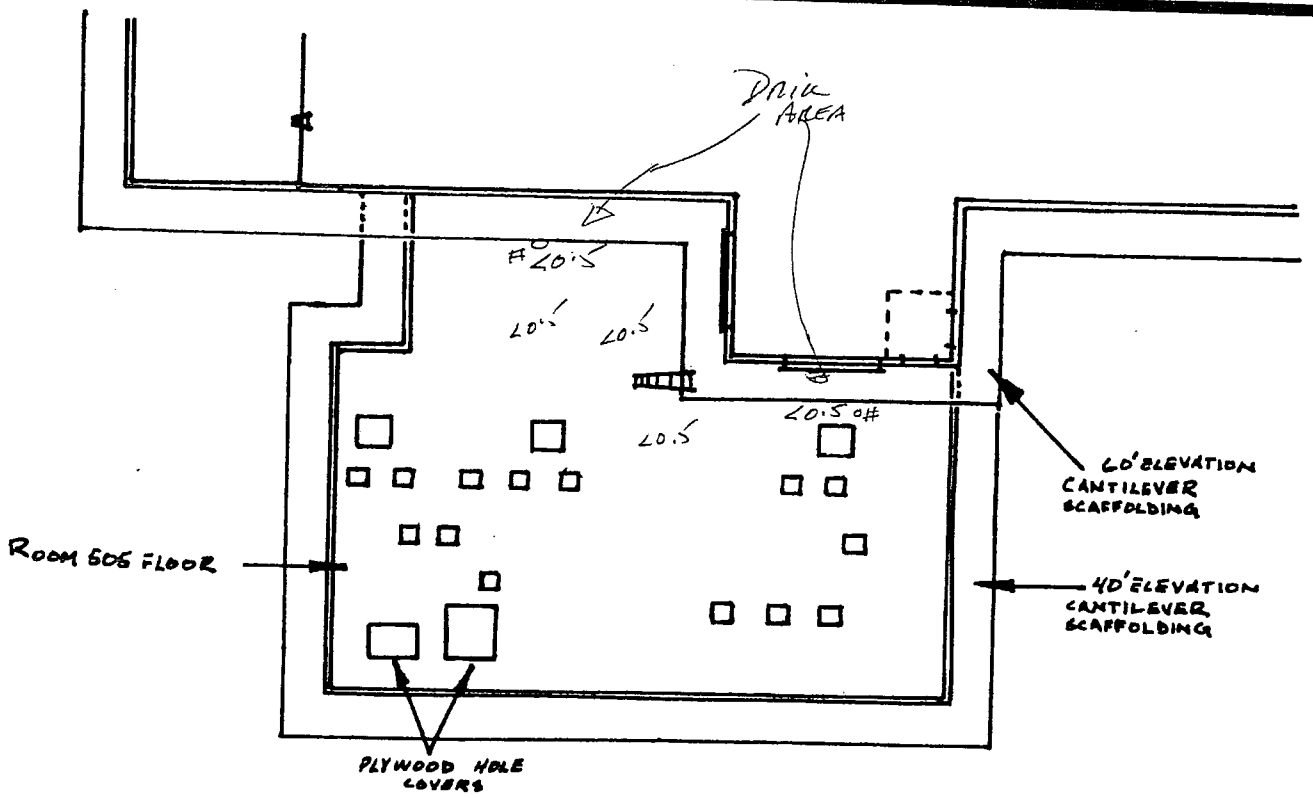
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☒ Routine W-6	☒ Work Progress	RSR – 100155-11-0436

RWP # / Rev. #	Date	Time	Location
100155-10-002 R-01	8/20/11	1400	100N

Description
105N 40 FT Roof.

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07-7



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3/43-93	SCUC-0043) DTLP0012	6/23/12		N	
Bicron	LMBC3-0147	12/27/10			
N/A	N/A	N/A		A	

RCT Name/Signature/Date:
Collin Dale 8/20/11

RCT Supervisor Name/Signature/Date: 10-05-2011
Michael T. Wright - RCS

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 105155-11-0436

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
04	SUPPORT HOLES (2)	<20	7	<1000	10	<500	7	<5000	10

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR

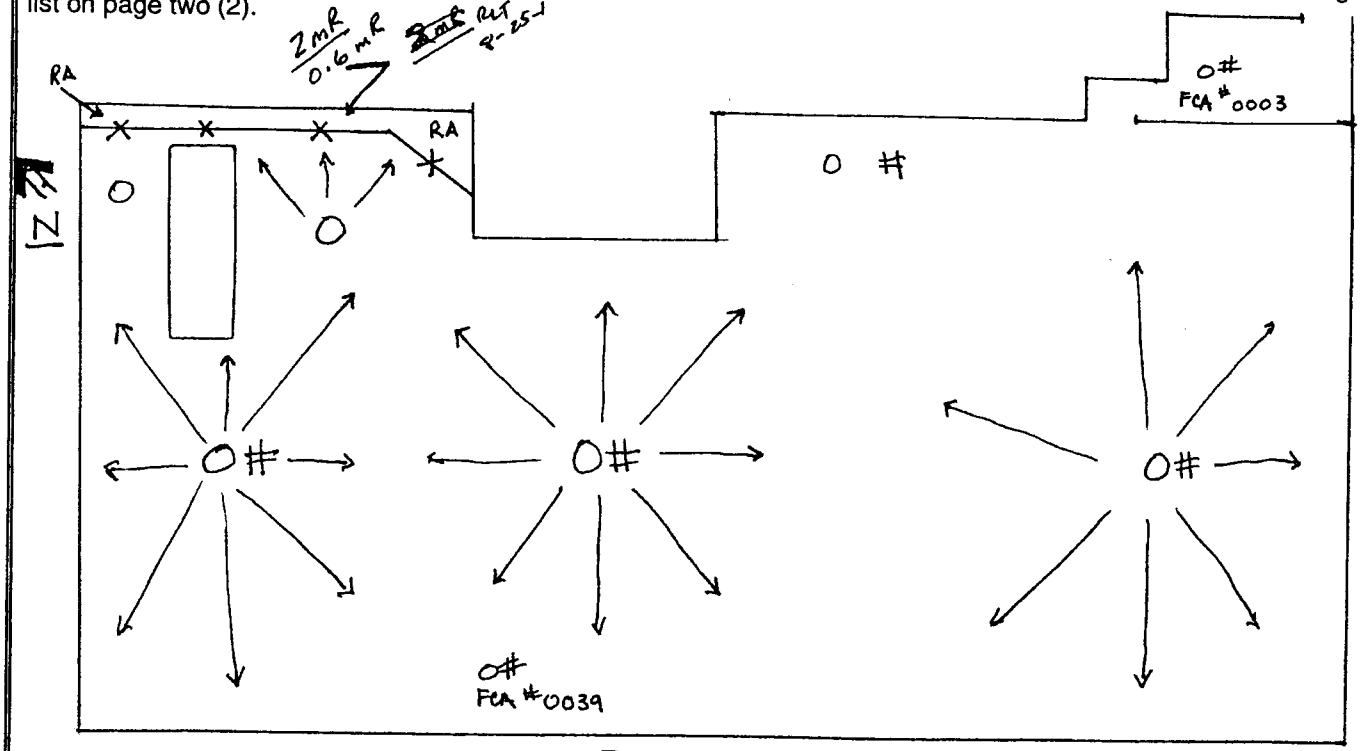
RADIOLOGICAL SURVEY RECORD

Type of Survey			Survey #
☐ Routine	☒ Work Progress		RSR – 100ISS-11-0452
RWP # / Rev. # 100ISS-10-002/01 ~~N/A~~ PM 1-6-12	Date 08-25-11	Time 0920	Location 100N

Description
109N Roof & RA Survey

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07.R.7

Perform roof top survey of the 109N area including RA on N.E. side of the enclosure, near the breach in the side paneling indicated on drawing. The FCA #0003 and #N-0039 were surveyed, no removable detected and the direct readings are list on page two (2).



Interior Roof 109N

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area					
O Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x			

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3	SCLLB-0081	05-10-12	43-93	DTLLP-0069	05-10-12 ~~06-28-12~~ Ref 8-25-11
N/A			N/A		
N/A			N/A		

RCT Name/Signature/Date:
Rene' L. Thomas ~~8-25-11~~

RCT Supervisor Name/Signature/Date: 1-24-12

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-11-0452

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O#	All Smears & directs, unless listed below.	<20	7	<1000	10	<500	7	<5000	10
#	FCA #N-0003	<20	7	<1000	10	<500	7	6000	10
#	FCA #0039	<20	7	<1000	10	<500	7	80000	10
			N						
			A						

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
	A			

RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine	☒ Work Progress	RSR –100ISS-11-0457

RWP # / Rev. #	Date	Time	Location
N/A	8/26/11	0910	100N

Description
105N W Elevator Area

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07-7

Performed Work Progress Survey on the W Elevator Area as workers are getting ready to cocoon that part of 105N Rx. Performed directs and tech smears along the walls and floor of this area. Please see page 2 for results.

The floor of the W Elevator Area is new concrete that was poured in late winter/early spring of 2011.

Please note that RCT was unable to survey above 8'.

This Area is posted RMA

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3/43-93	0077/0015	8/12/12	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

RCT Name/Signature/Date:
Deb Poteet Deb Poteet 8/26/11

RCT Supervisor Name/Signature/Date:
~~Michael Wright~~ MW 1-24-12 1-24-12

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR -100ISS-11-0457

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O	All Areas Surveyed	N/A	N/A	N/A	N/A	<500	7	<5000	10
#	East Wall	N/A	N/A	N/A	N/A	<500	7	9K	10
#	North Wall	N/A	N/A	N/A	N/A	<500	7	2-5K	10
#	West Wall	N/A	N/A	N/A	N/A	<500	7	2-5K	10
#	All Other Areas Surveyed	N/A	N/A	N/A	N/A	<500	7	<1K	10

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

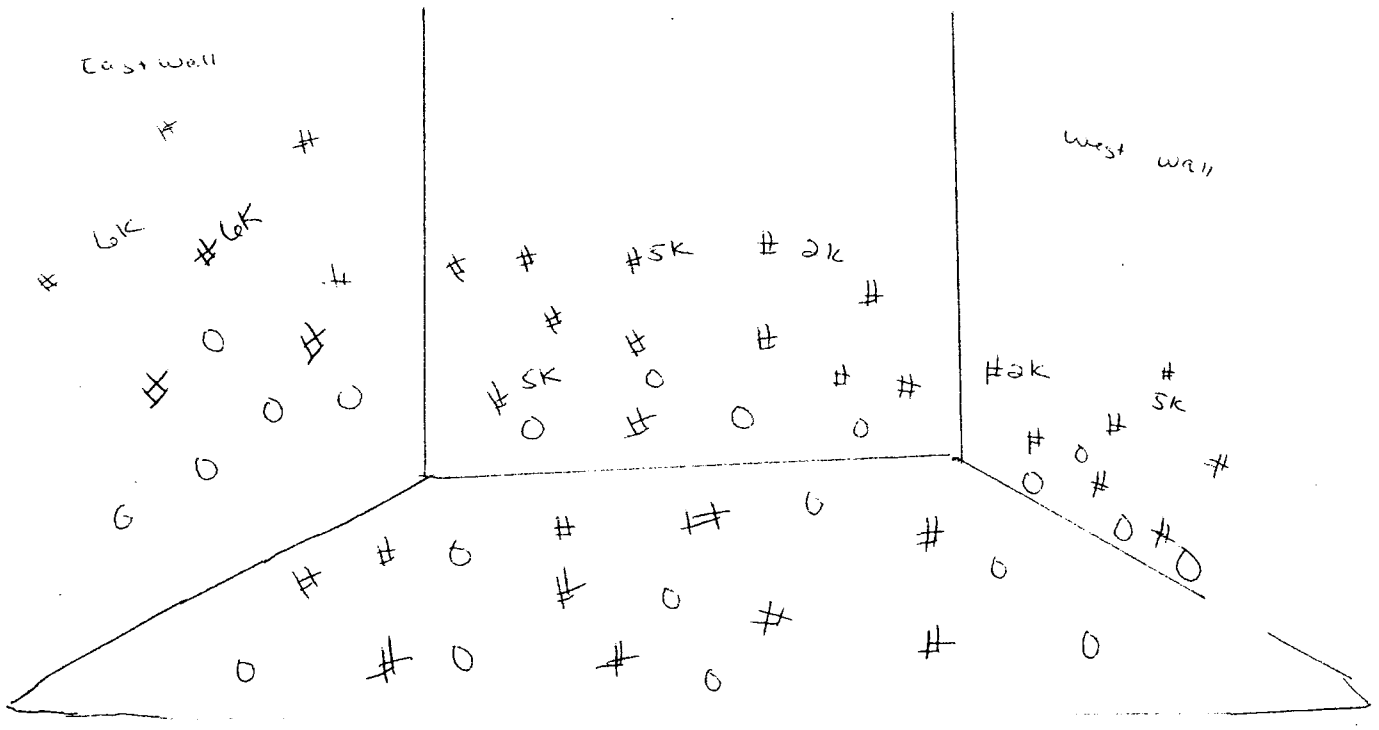
Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR

RADIOLOGICAL SURVEY RECORD (continuation)	Page: 3 of 3 Survey # RSR 100ISS-11- 0457

Additional Information
(Drawing, Map, Etc.)



RADIOLOGICAL SURVEY RECORD

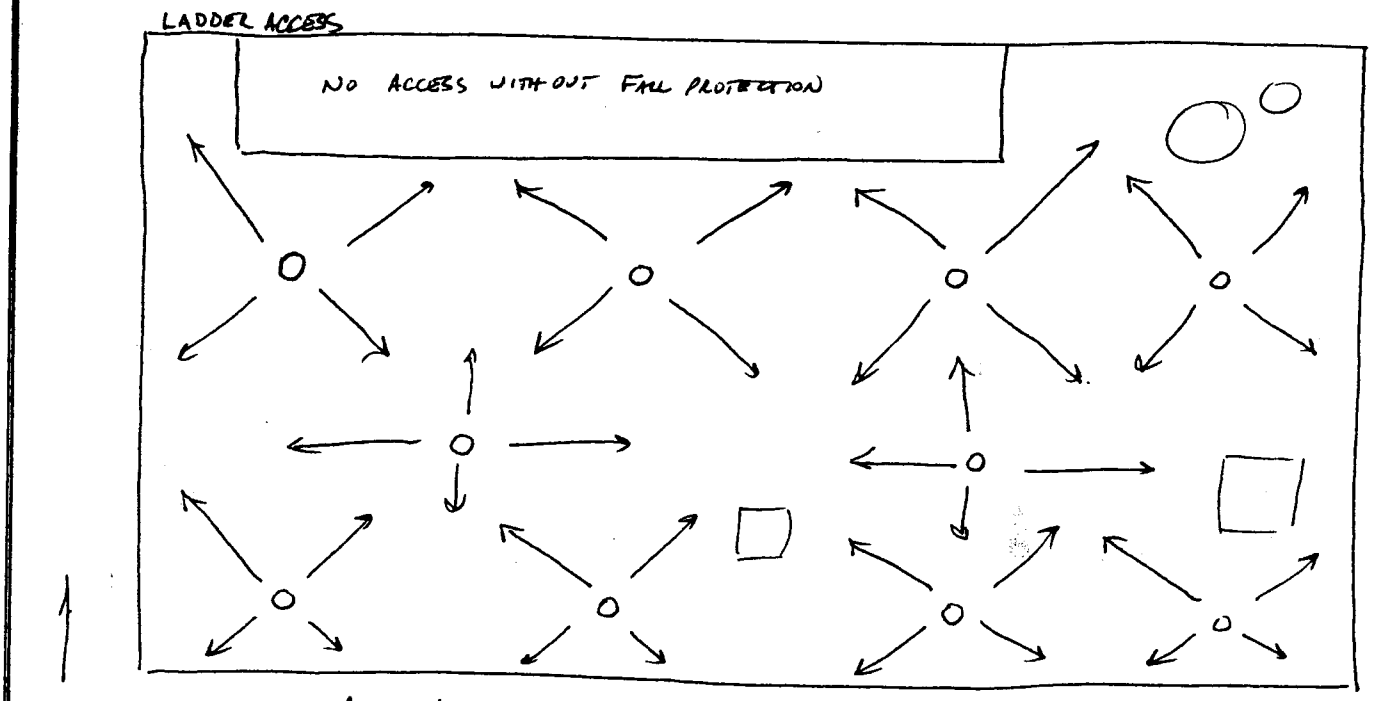
Type of Survey		Survey #
☐ Routine N/A	☑ Work Progress	RSR – 100ISS-11-0542

RWP # / Rev. #	Date	Time	Location
100ISS-10-001 01	Oct 17 2011	0900	100-105N 70'

Description
Surveyed Prior to Walkdown 70' 105N

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 R7

105N 70'



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x----x----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3 43-93	0079 0045	5-24-12	N/A		
RO 20	1470	4-21-12	N/A		
N/A			N/A		

RCT Name/Signature/Date:
Jack Conrad Oct 17 2011

RCT Supervisor Name/Signature/Date:
COPY

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100155-11-0542

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
D	TOOK 50 SMEARS OF WALKING SURFACES	<20	7	<1000	10	N/A			
N/A									

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				

RADIOLOGICAL SURVEY RECORD

Type of Survey			Survey #
☐ Routine	☒ Work Progress		RSR – 100ISS-11-0556
RWP # / Rev. #	Date	Time	Location
100ISS-10-013/Rev 03	10-23-11	1700	100N/105N/C elevator

Description
Completion of work progress survey during grouting operations

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07/R 7

Completed third day of grouting from C elevator. Completed de-mobilization on C elevator. Survey results shown are current radiological conditions found after de-mobilization was complete. Air sampling was continuous through out grouting and demobilization. Demobilization included removal of tools and equipment from elevator and tent.

Postings on the C elevator were ARA, HCA, HRA; while postings in the tent included those previously mentioned and CA. See diagram for posting locations.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-1/43-93	0149/0193	07-25-12		N	
RO-20	1295	06-15-12			
N/A	N/A	N/A		A	

RCT Name/Signature/Date:
Terry Parker/ /10-28-11

RCT Supervisor Name/Signature/Date: 11/01/2011
Michael T. Wright - RCS

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-11-0556

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1	Threshold, West end of elevator	56	7	6110	10	N/A	N/A	N/A	N/A
2-5	Rail, center of elevator, max	42	7	2000	10	N/A	N/A	N/A	N/A
6	Threshold, East end of elevator	56	7	10,000	10	N/A	N/A	N/A	N/A
7	Platform stop/brace, West end	210	7	74,000	10	N/A	N/A	N/A	N/A
8, 9	Hand rail, max	42	7	4590	10	N/A	N/A	N/A	N/A
10	Platform stop/brace, East end	266	7	103,000	10	N/A	N/A	N/A	N/A
11-15	Grating, max	42	7	4590	10	N/A	N/A	N/A	N/A
16	Wall, West end	112	7	36,000	10	N/A	N/A	N/A	N/A
17	Wall, middle	119	7	26,000	10	N/A	N/A	N/A	N/A
18	Wall, East end	77	7	48,950	10	N/A	N/A	N/A	N/A
19	Control panel face	21	7	6000	10	N/A	N/A	N/A	N/A
20	Inside track rail	49	7	16,000	10	N/A	N/A	N/A	N/A
21	Floor plate	49	7	24,000	10	N/A	N/A	N/A	N/A

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

RADIOLOGICAL SURVEY RECORD (continuation) Contamination	Page: 3 of 5 Survey # RSR 100ISS-11-0556

Contamination Measurement Information[1]

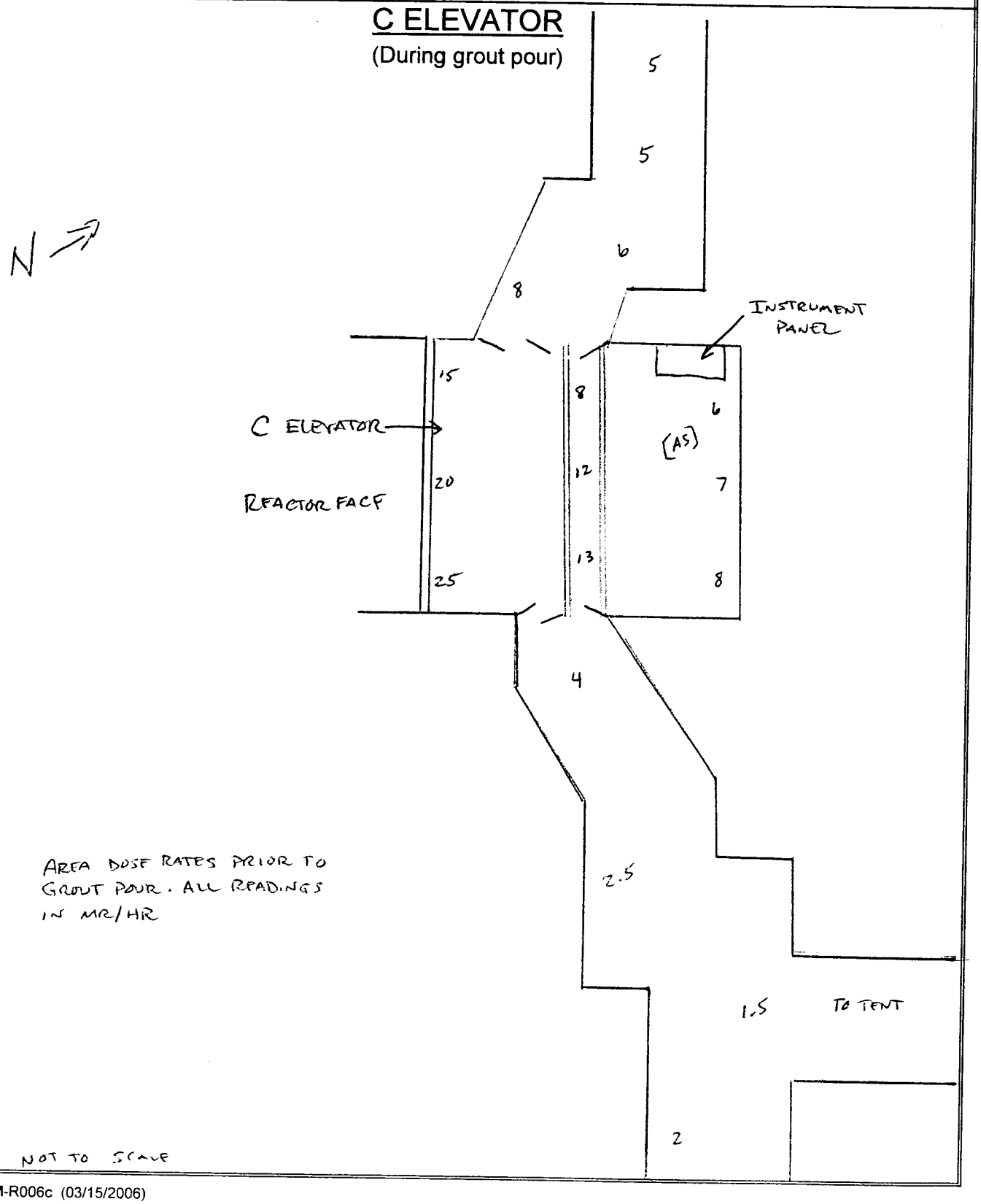
Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
22	Floor plate	35	7	9000	10	N/A	N/A	N/A	N/A
23,24	Elevator entry floor, max	21	7	1000	10	N/A	N/A	N/A	N/A
25,26	"I" beam, max	70	7	14,000	10	N/A	N/A	N/A	N/A
27	Shelf	28	7	1000	10	N/A	N/A	N/A	N/A
28	Wall	28	7	1000	10	N/A	N/A	N/A	N/A
29	"I" beam	<20	7	3500	10	N/A	N/A	N/A	N/A
30	Floor	<20	7	1500	10	N/A	N/A	N/A	N/A
31	Top of fencing	21	7	2000	10	N/A	N/A	N/A	N/A
32	Floor	<20	7	<1000	10	N/A	N/A	N/A	N/A
			N						
					A				

[1]Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

RADIOLOGICAL SURVEY RECORD (continuation)	Page: 4 of 5 Survey # RSR 100ISS-11-0556

Additional Information
(Drawing, Map, Etc.)



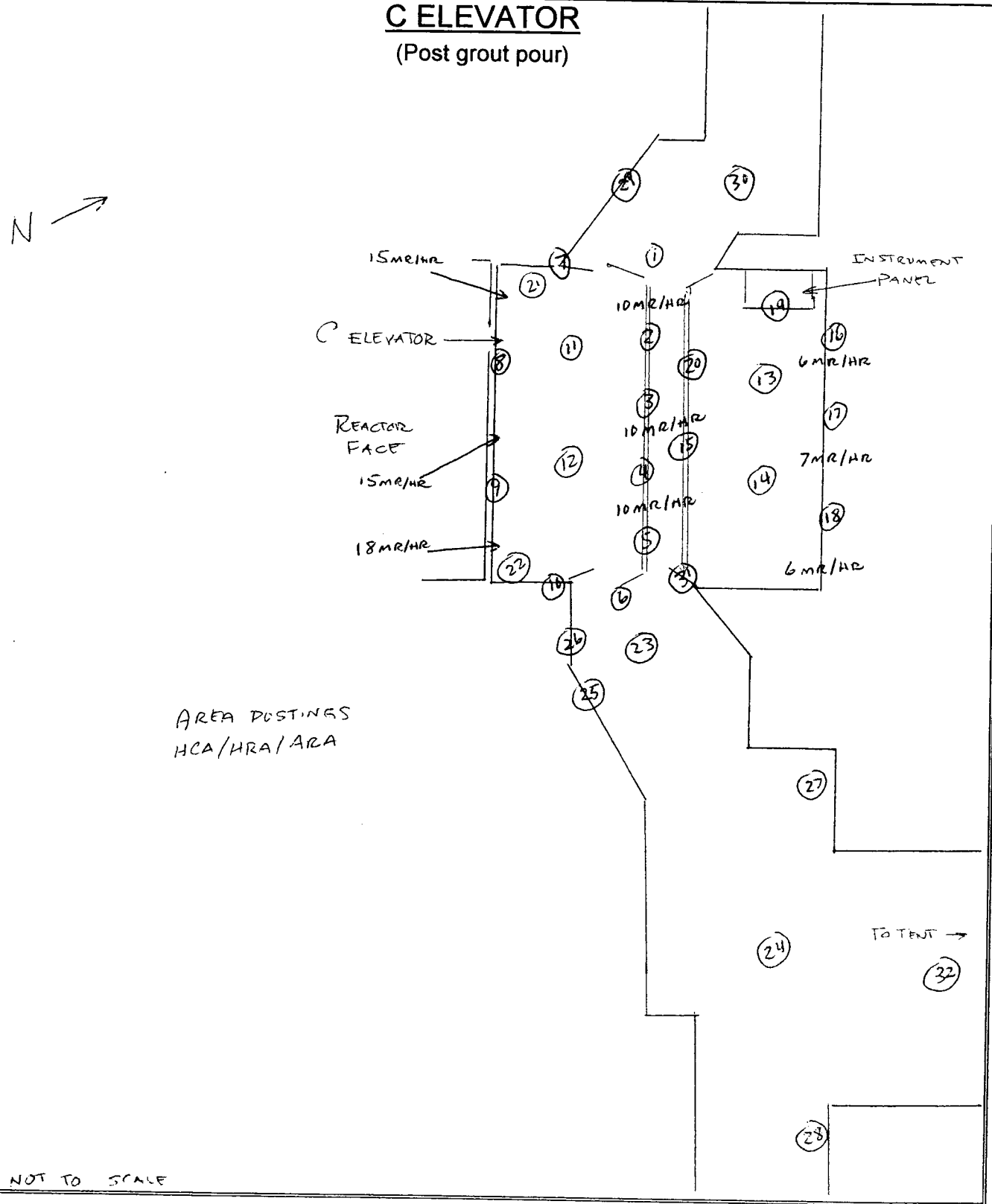
RADIOLOGICAL SURVEY RECORD (continuation)

Page: 5 of 5

Survey # RSR 100ISS-11-0556

Additional Information
(Drawing, Map, Etc.)

C ELEVATOR
(Post grout pour)



RADIOLOGICAL SURVEY RECORD

Type of Survey			Survey #
☐ Routine NA	☒ Work Progress		RSR –100N-11-2333
RWP # / Rev. #	Date	Time	Location
NA	12/16/2011	1000	100N/ 105N/109N

Description : Final verification survey

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)

TA-07-SR-07-7

Performed direct and removable contamination surveys on the floor, walls below 6ft. and suspect areas in the following areas:

Building 109N Access building (-16) ft. elevation,
Building 105N rooms 7, 8 and 9 @ (-15) ft. elevation rooms 172,173, and 174 @ 5 ft. elevation.
R Elevator @ -24 ft. elevation.
Stair 6 (-24ft.) elevation to (40 ft.) elevation and stair 6A from (40 ft.) elevation to 105N roof.
No removable contamination found. See page 2 for results.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates = Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact / 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3 / 43-93	SCLLB-0009 / DTLLP-0097	12/07/2012	2360 / 43-93	SCLL8-0078/ DTLLP-0179	09/08/2012
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA

RCT Name/Signature/Date:
J. Powell 12/16/2011

RCT Supervisor Name/Signature/Date: 12/20/2011
Michael T. Wright - RCS

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR -100N-11-2333

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O,#	Room 172 (1/8) piping 6ft. high	<20	7	<1K	10	< 500	7	31K	10
O,#	Room 9 (6 inch drain pipe)	<20	7	<1K	10	<500	7	6.5K	10
O,#	Room 7 (4 inch piping)	<20	7	<1K	10	<500	7	6K	10
O,#	All Smears and directs	< 20	7	< 1K	10	<500	7	<5K	10
			N						
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

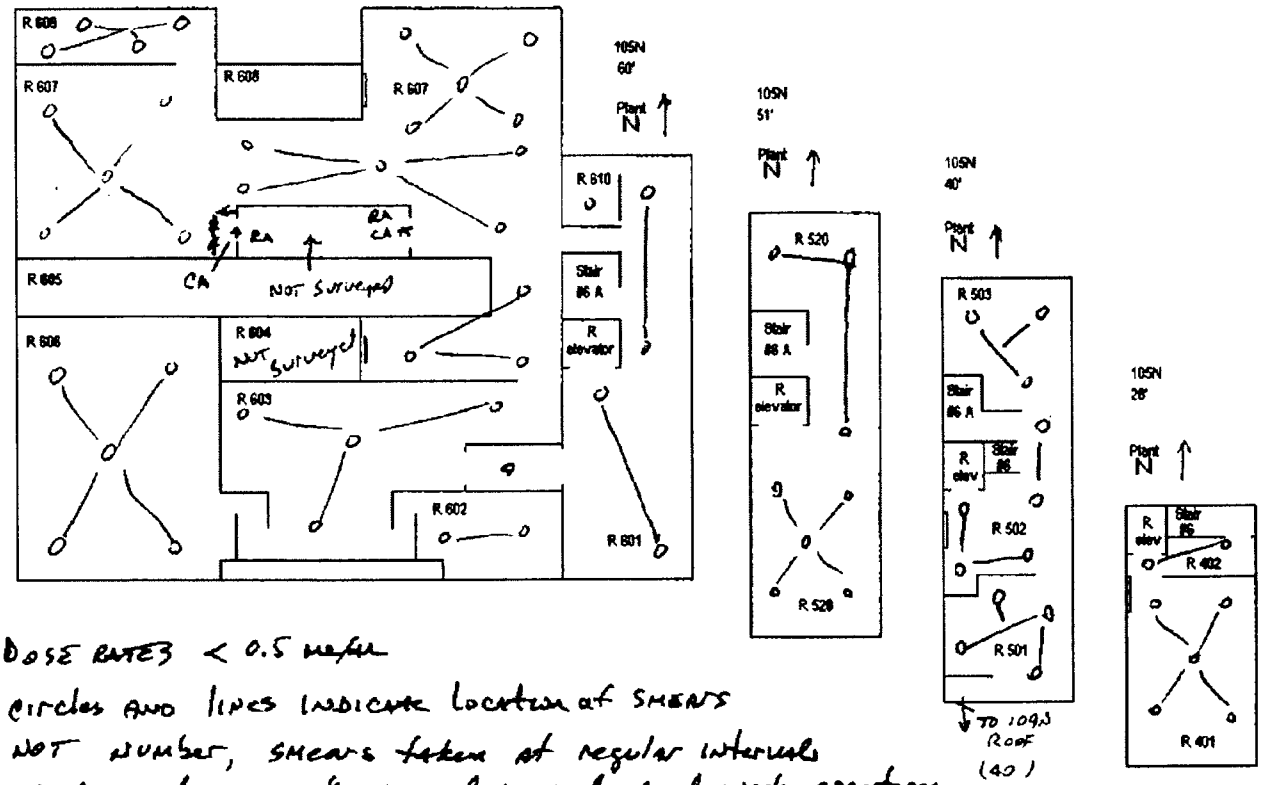
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine N/A ☑ Work Progress		RSR – 100N-11-2334

RWP # / Rev. #	Date	Time	Location
100N-10-001 02	December 16, 2011	1030	100N / 105N / 109N

Description
105N/109N verification surveys, +28' through 60'

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 R7



DOSE RATES < 0.5 mR/hr
CIRCLES AND LINES INDICATE LOCATION OF SMEARS
NOT NUMBER, SMEARS TAKEN AT REGULAR INTERVALS IN ACCORDANCE WITH PROCEDURE AND GOOD WORK PRACTICES.

CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x---x---x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3/DTNE2	0164/0012	5-17-12	N/A		
RO20	1474	4-21-12	N/A		
N/A			N/A		

RCT Name/Signature/Date: Jack Conrad, December 16, 2011

RCT Supervisor Name/Signature/Date: Michael T. Wright - RCS 12/20/2011

RCT signature indicates portable instruments checked IAW RC-500-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100N-11-2334

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
O	Smears on floor and walls to 8'	<20	7	<1000	10	N/A			
N/A									

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				

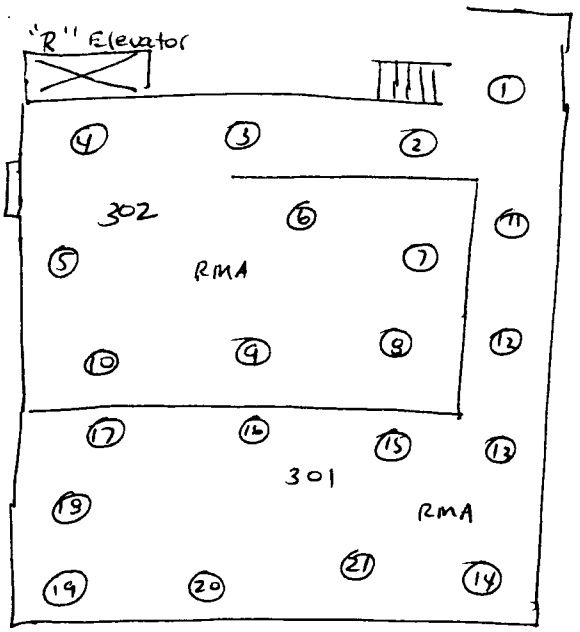
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☐ Routine N/A	☒ Work Progress	RSR – 100N – 12 – 0046

RWP # / Rev. #	Date	Time	Location
N/A	1/6/2012	1030	105N 100N / Room 302 & 301

Description
Final Survey of Rooms 302 and 301

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 Rev. 7



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x-----x-----x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
2224-3 / DP6BD	SCLLB-0147 / DTNE2-0047	07/19/2012			
			N		
			A		

RCT Name/Signature/Date:
J. Powell 01/06/2012

RCT Supervisor Name/Signature/Date:
Michael T. Wright - RCS 01/06/2012

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100N - 12 - 0046

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1-21	ALL Smears	<20	1	<1K	10	N/A	→	→	→
				N					
				A					

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	N			
		A		

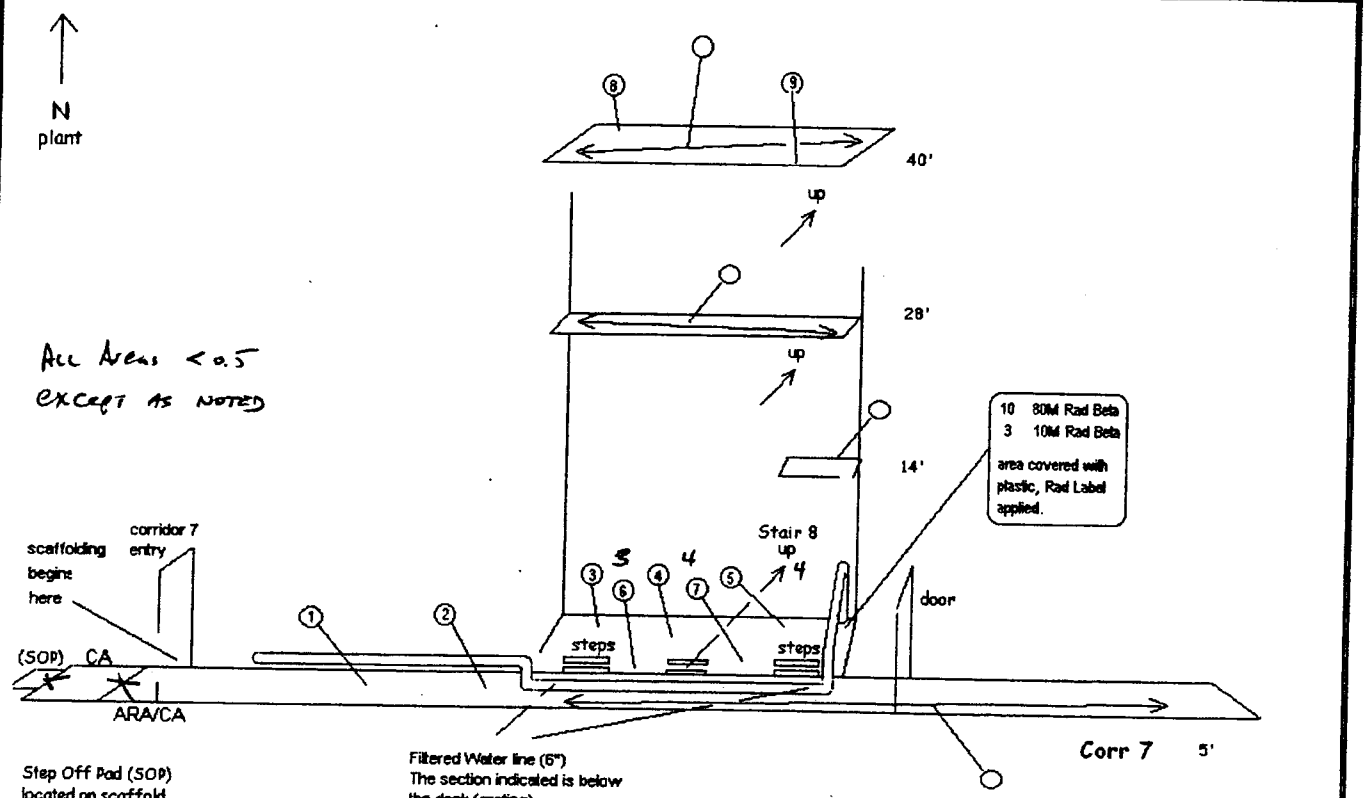
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☑ Routine D1	☑ Work Progress	RSR – 100ISS-12-0062

RWP # / Rev. #	Date	Time	Location
100ISS-12-001 00	May 31, 2012	0945	100N/105N Corridor 7 +5 ft

Description
Corridor 7 survey during Intermech clean up

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA-07-SR-07 R7



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
RO20	1508	4-3-13	N/A		
2224-3/43-93	0081/0069	10-24-12	N/A		
N/A			N/A		

RCT Name/Signature/Date:
Jack Conrad, May 31st, 2012

RCT Supervisor Name/Signature/Date:
5-31-12

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-12-0062

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
1	floor, as shown on page 1	<20	7	1500	10	N/A			
2	floor, as shown on page 1	<20	7	2000	10	N/A			
3	floor, as shown on page 1	<20	7	1500	10	N/A			
4	floor, as shown on page 1	<20	7	3000	10	N/A			
5	floor, as shown on page 1	<20	7	3000	10	N/A			
6	floor, as shown on page 1	<20	7	6000	10	N/A			
7	floor, as shown on page 1	<20	7	5000	10	N/A			
8	floor, as shown on page 1	<20	7	1500	10	N/A			
9	floor, as shown on page 1	<20	7	3000	10	N/A			
O	floor, walls, horizontal surfaces	<20	7	<1000	10	N/A			
N/A						N/A			
						N/A			
						N/A			

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				

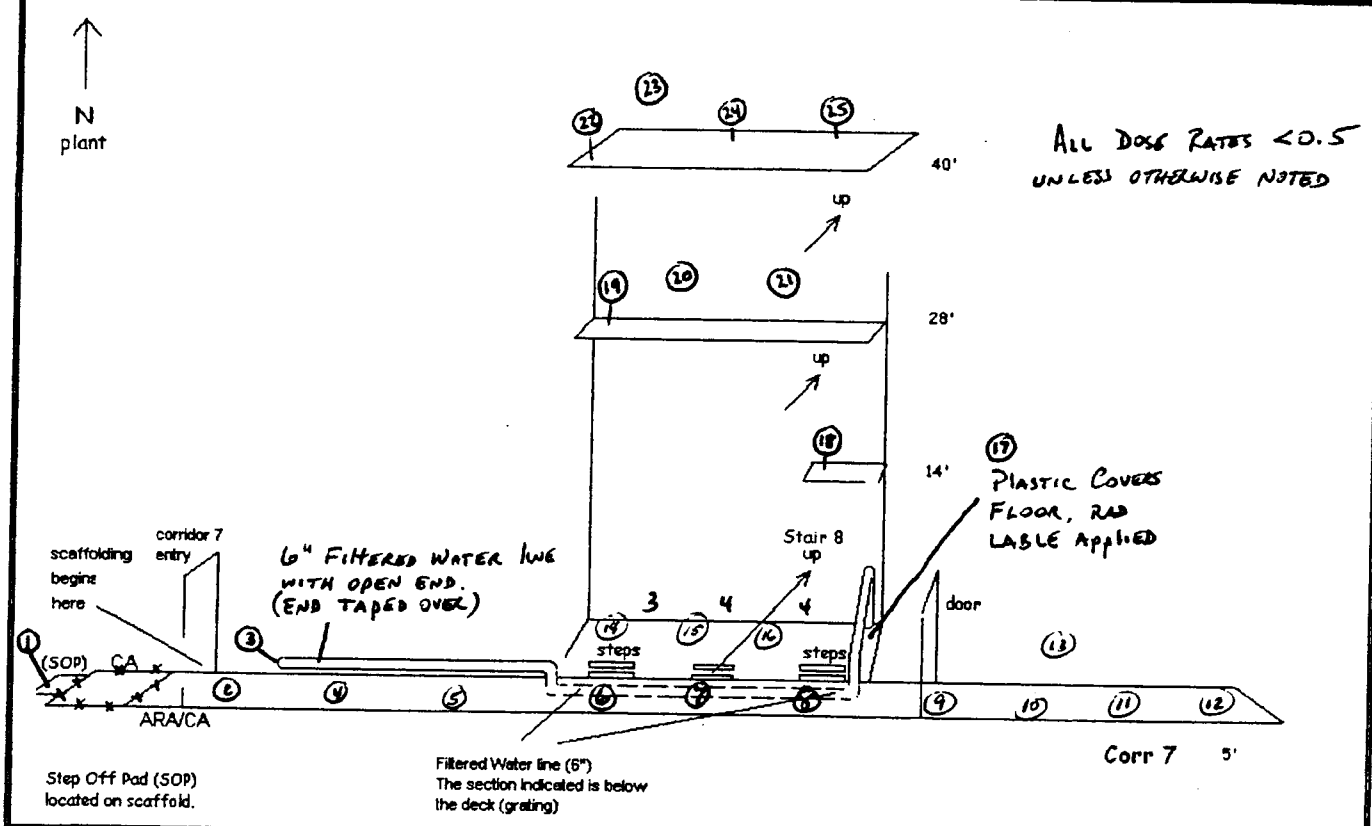
RADIOLOGICAL SURVEY RECORD

Type of Survey		Survey #
☑ Routine DI W15	☑ Work Progress	RSR – 100ISS-12-0070

RWP # / Rev. #	Date	Time	Location
100ISS-12-001 00	JUNE 5 2012	1030	100N 105N Corr 7

Description: CLOSE OUT Survey for Corr 7, STAIR 8 AND ASSOCIATED AREAS, INCL 40'

References: (e.g., SRTA, ASER, LASER, RSP, Work Package): TA-07-SR-07 27



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
RO 20	1508	4-3-13	N/A		
2224-3 43-93	0081 0069	10-24-12	N/A		
N/A			N/A		

RCT Name/Signature/Date: Jack Conrad, JUNE 5 2012

RCT Supervisor Name/Signature/Date: 6-5-12

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-12-0070

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
2	FLOOR	<20	7	5000	10	N/A			
15	FLOOR	<20	7	1500	10				
16	FLOOR	<20	7	2000	10				
17	FLOOR (TAKEN ON PLASTIC)	<20	7	4000	10				
24	FLOOR	<20	7	1500	10				
O	LOCATIONS PAGE 1	<20	7	<1000	10				
N/A									

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
N/A				

RADIOLOGICAL SURVEY RECORD

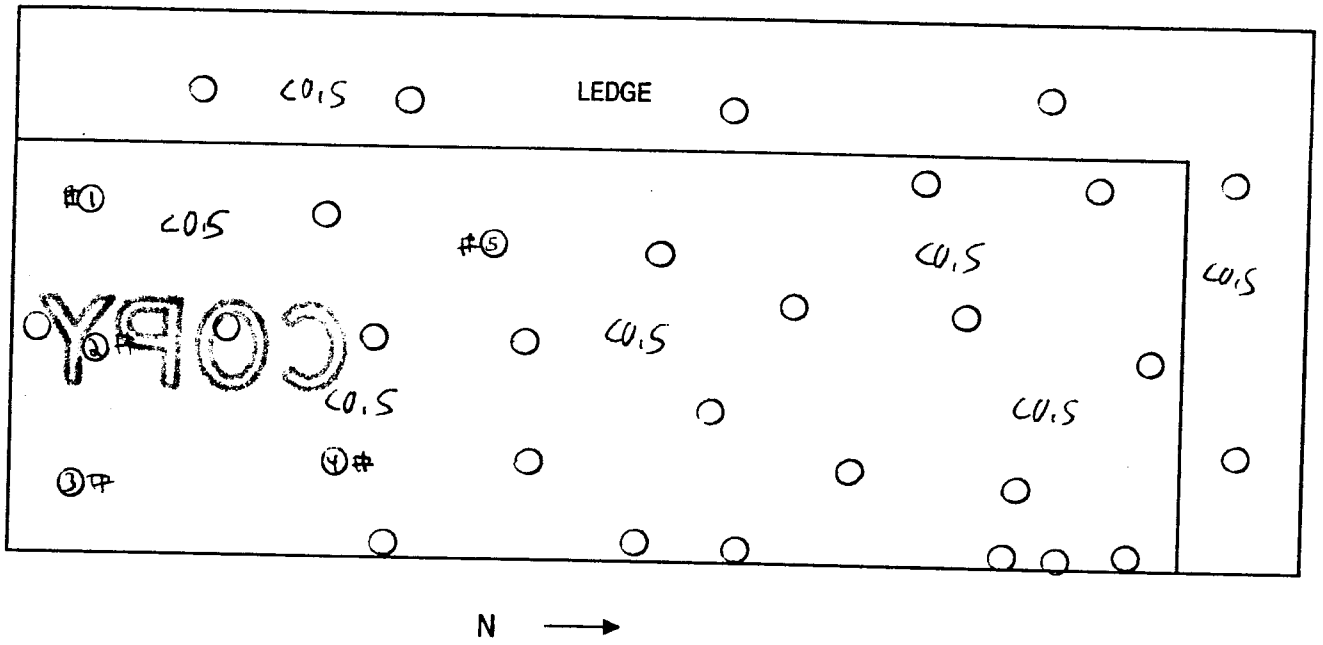
Type of Survey		Survey #
☐ Routine	☒ Work Progress	RSR – 100ISS-12-0173

RWP # / Rev. #	Date	Time	Location
100ISS-12-001/01	07/17/12	1100	100N/105N

Description
Corridor 22 Closeout

References: (e.g., SRTA, ASER, LASER, RSP, Work Package)
TA07 SR07 07

COPY



CA Contamination Area	HCA High Contamination Area	RBA Radiological Buffer Area	ARA Airborne Radioactivity Area	[AS] Air Sample Location	RMA Radioactive Materials Area	RA Radiation Area	HRA High Radiation Area	VHRA Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	T Transferable	General Area Dose Rates =Uncorrected Meter Reading (mR/hr)	All radiation readings are γ dose rates in units of mR/hr unless otherwise indicated	Contact 30 cm	N Neutrons (mRem/hr)	Δ Micro Rem (μR/hr)	SCA Soil Contamination Area	Radiological Boundary x—x—x

Instruments

Model	ID #	Cal Due Date	Model	ID #	Cal Due Date
Model 3	CMLL2-0018	12/12/12	DP6BD	DTNC2-0116	01/05/13
HP-210T	DTEB5-0046	02/13/13	NA	NA	NA
2224-3	SCLLB-0126	01/05/13	NA	NA	NA

RCT Name/Signature/Date:
Sean Kropla Sean M. Kropla 07/17/12

RCT Supervisor Name/Signature/Date:
John K. [illegible] 7-18-12

RCT signature indicates portable instruments checked IAW RC-300-2.1

RADIOLOGICAL SURVEY RECORD

Survey # RSR - 100ISS-12-0173

Contamination Measurement Information[1]

Circled values indicate Removable β contamination in mrad/hr β

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β–γ	β–γ C-F	α	α C-F	β–γ	β–γ C-F
# O	All smears and direct readings except those listed below.	<20	7	<1000	10	<500	7	<5000	10
1	Floor	<20	7	<1000	10	55K	7	9K	10
2	Floor	<20	7	<1000	10	<500	7	8K	10
3	Floor	<20	7	<1000	10	<500	7	10K	10
4	Floor	<20	7	<1000	10	<500	7	10K	10
5	Floor	<20	7	<1000	10	<500	7	40K	10
NA									
									NA

Y903

COPY

[1] Unless stated otherwise in the "References" section, exempted β-γ (i.e., C-14, Fe-55, Ni-59, Ni-63, Se-79, Tc-99, Pd-107, Eu-155) contamination levels are ≤ 10 times the β-γ contamination levels shown above.

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

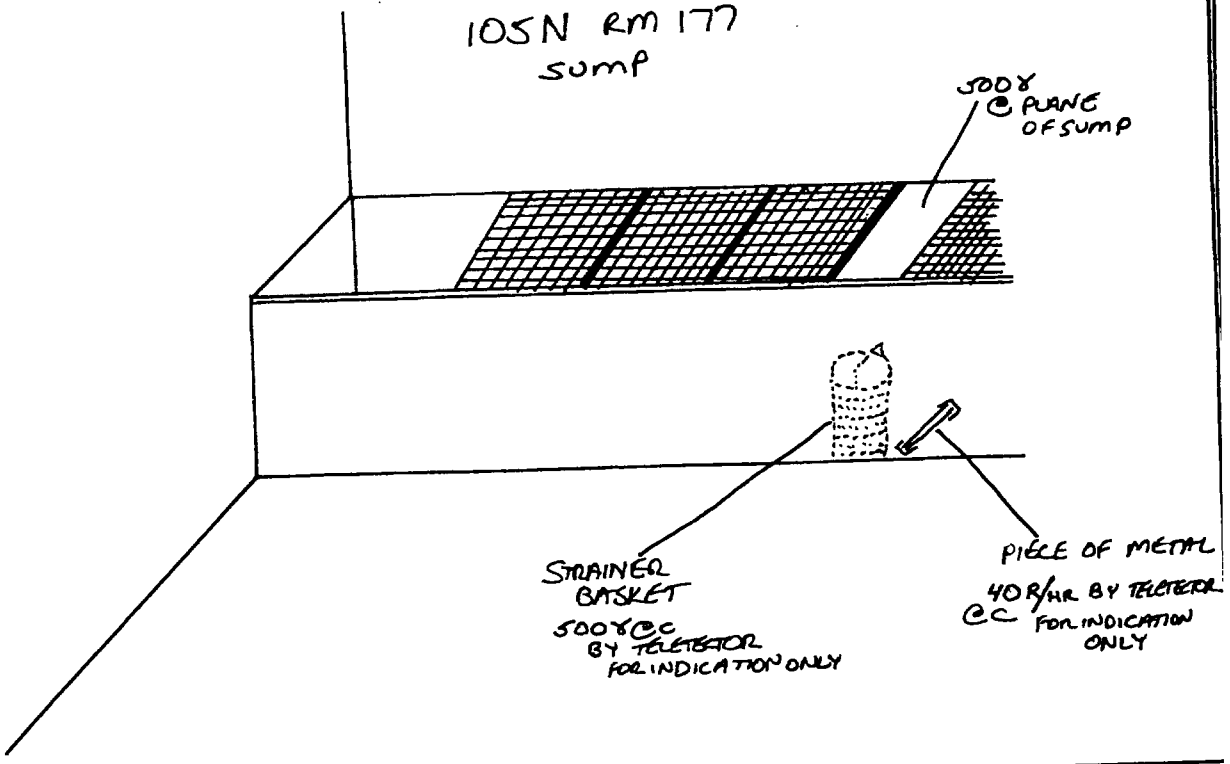
Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
NA				
				NA

ERC RADIOLOGICAL SURVEY RECORD

Type of Survey (check one only)
☐ Release ☐ Routine ☒ Work Progress ☐ Shipment

Survey # RSR - WRx - 98 - 0258

RWP # / Rev. #	Date	Time	Location
WRx - 032 / 1	2-10-98	1400	PhM2 / 105 N Rm 176/177



Unless noted, contamination levels are below the levels listed in Project Technical Assessment #: TA-97-SR-34

-C- Contamination Area	-H- High Contamination Area	-B- Radiological Buffer Area	-AR- Airborne Radioactivity Area	-RM- Radioactive Materials Area	-R- Radiation Area	-HR- High Radiation Area	-VHR- Very High Radiation Area

○ Technical Smear	# Direct	M Large Area Wipe	(direct/γ 4π cm) (direct/β 4π cm) General Area Dose Rate = Uncorrected Meter Reading (mR/hr)	△ Micro Rem (μR/hr)	N Neutrons (mRem/hr)	[AS] Air Sample Location	-SCA- Soil Contamination Area

Instruments

Model	Serial #	Source ✔ (Initial)	Cal Due Date	Model	Serial #	Source ✔ (Initial)	Cal Due Date
E-600/HP210T	1137/0121	nl	6-2-98/9-29-98	RO-3	0089	nl	11-12-98
PM m	0018	nl	1-6-99	Teletector	0012	WA	7-31-98

RCT Name/Signature/Date:
I.G. Campos / nl / 2-11-98 R.P. Cordoba / R. Cordoba 2/11/98

RCT Supervisor Name/Signature/Date:
D.L. HILL
2/12/98

RSR completed in accordance with BHI-SH-04, Procedure 3.1.

Contamination Measurement Information

Circled values in Removable β-γ denotes mrad/hr β

Unless otherwise noted, use the following Correction Factors:

Source smaller than probe size:
PAM = 7 P-11 probe = 10

Source larger than probe size:
PAM = 14 P-11 probe = 50

List other Correction Factors, instruments, and source documents:

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
2	Rod Cover	<20	7	1K	10				
3	" "			1K		W			
7	" "			1K					
8	" "			1K					
10	Floor Covering			3K					
12	Rod Cover			8K					
13	" "			3K				A	
14	" "			2K					
15	Grating			3K					
16	Scaffolding			1K					

Corrected Dose Rate Calculations

Show all work. CF = 1 unless noted.

Location	Contact Readings		30 cm Readings	
	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR	β (mrad/hr) (WO-WC) X CF = DR	γ (mR/hr) WC X CF = DR
	W			
	A			

ERC RADIOLOGICAL SURVEY RECORD (continuation)
Contamination

Survey # RSR-NRX-98-025

Contamination Measurement Information

Circled values in Removable β-γ denotes mrad/hr β

Unless otherwise noted, use the following Correction Factors:

Source smaller than probe size:
PAM = 7 P-11 probe = 10

Source larger than probe size:
PAM = 14 P-11 probe = 50

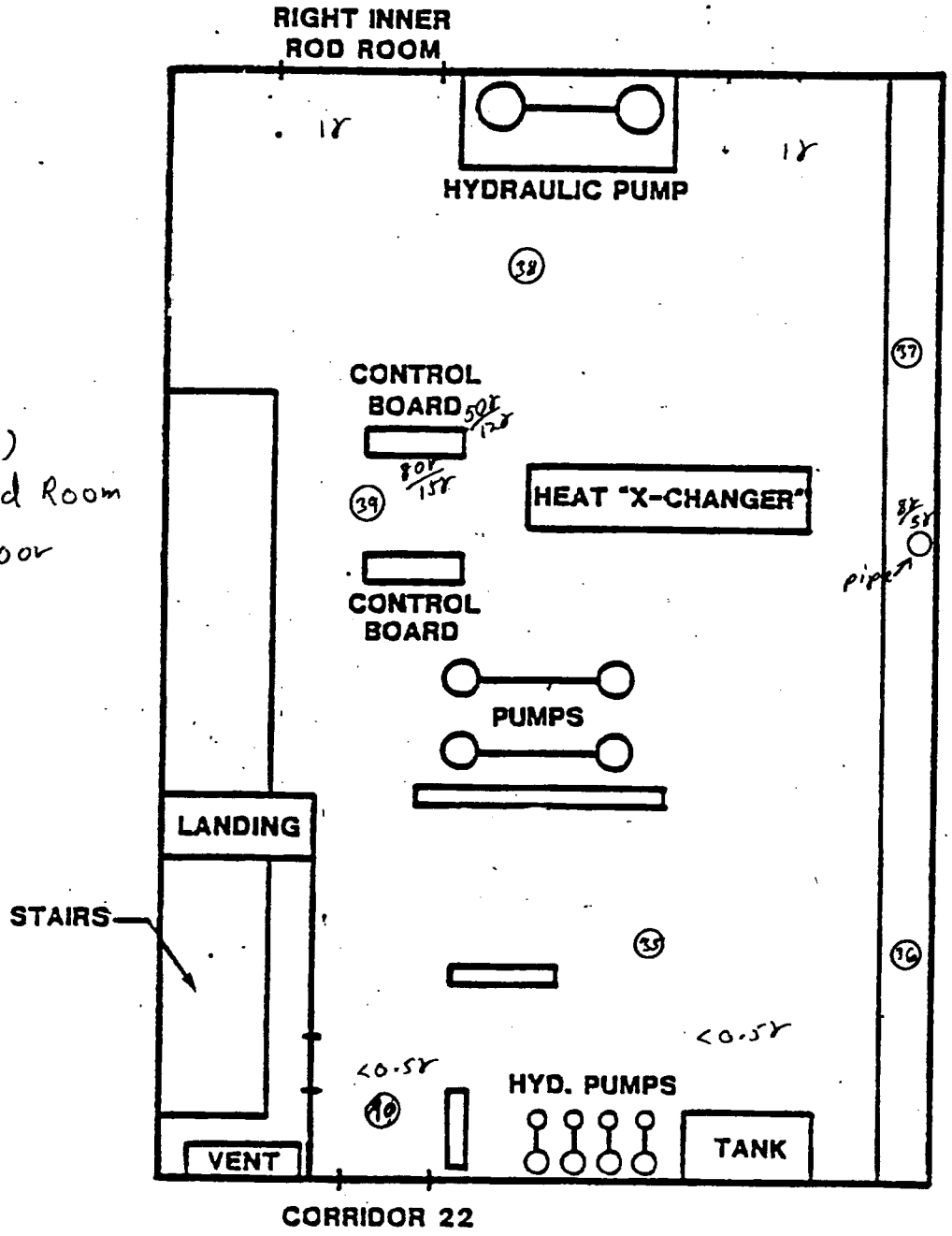
List other Correction Factors, instruments, and source documents:

No.	Description of Item or Location	Removable (dpm/100 cm²)				Total (dpm/100 cm²)			
		α	α C-F	β-γ	β-γ C-F	α	α C-F	β-γ	β-γ C-F
17	Ledge to Sump	<20	7	3 K	10				
18	catch pan to heat Exch.			20 K					
19	" " " " "			110 K		N			
20	Floor			3 K					
26	Table			1 K					
27	Valve			1 K					
28	catch pan to Rad			1 K					
31	Floor			1 K				N	
37	On Plug Cover (ledge)			1 K					
38	Floor			4 K					
39	Floor			2 K					
40	Floor			1 K					
	N								
								N	

Additional Information

(Drawing, Map, Etc.)

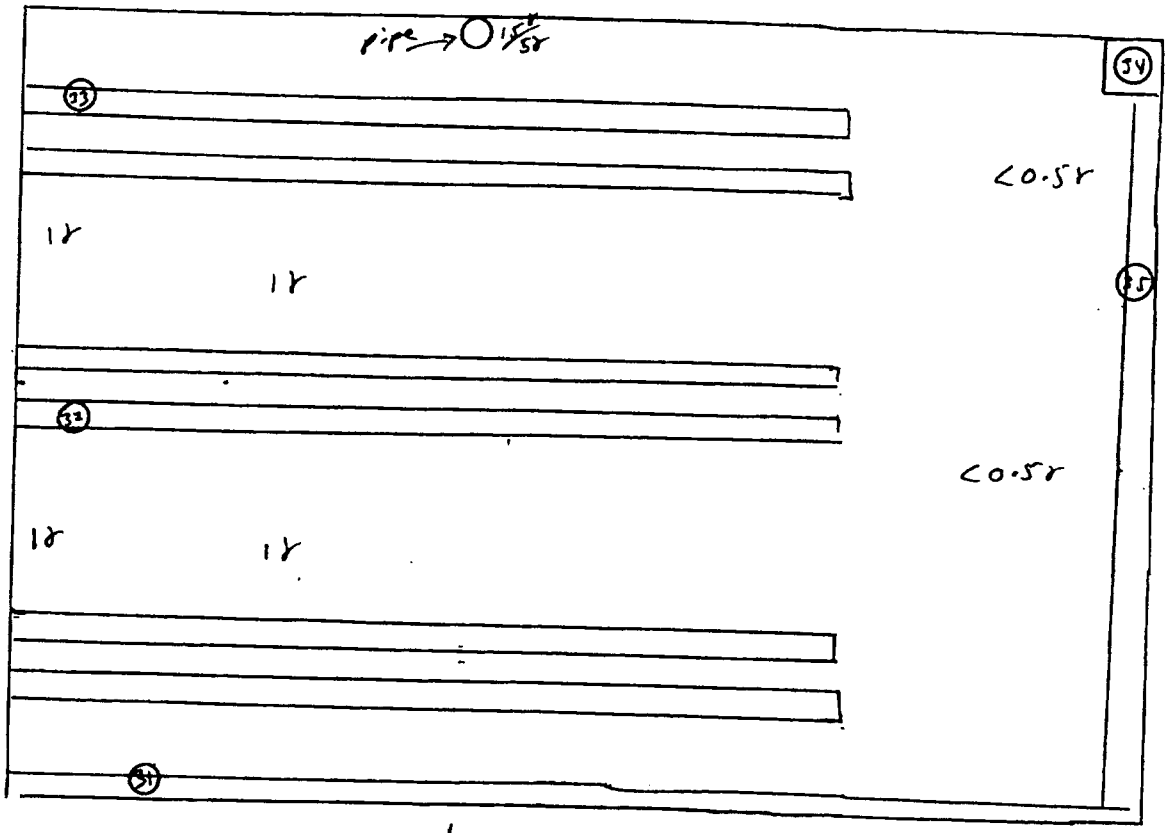
(17C)
Outer Rod Room
1st Floor



Additional Information

(Drawing, Map, Etc.)

Outer Rod Room
(176)

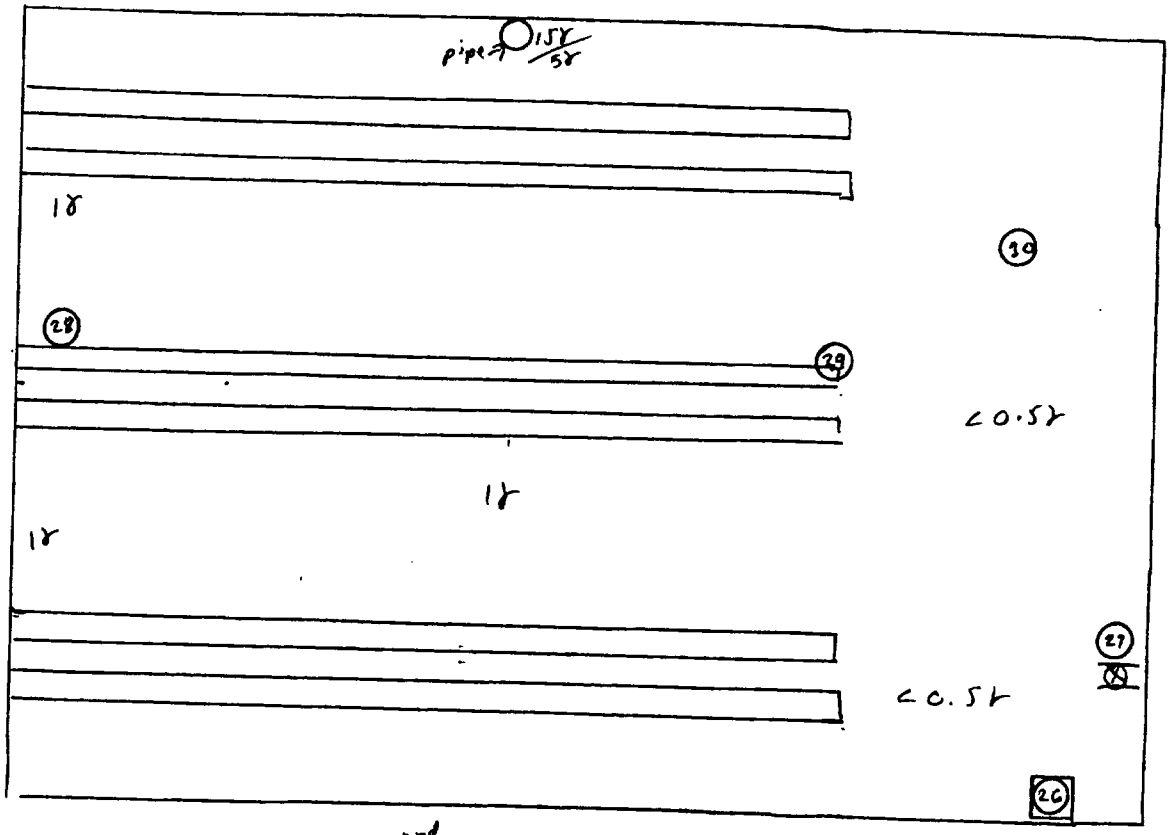


2nd Floor

Additional Information

(Drawing, Map, Etc.)

Outer Rod Room
(176)

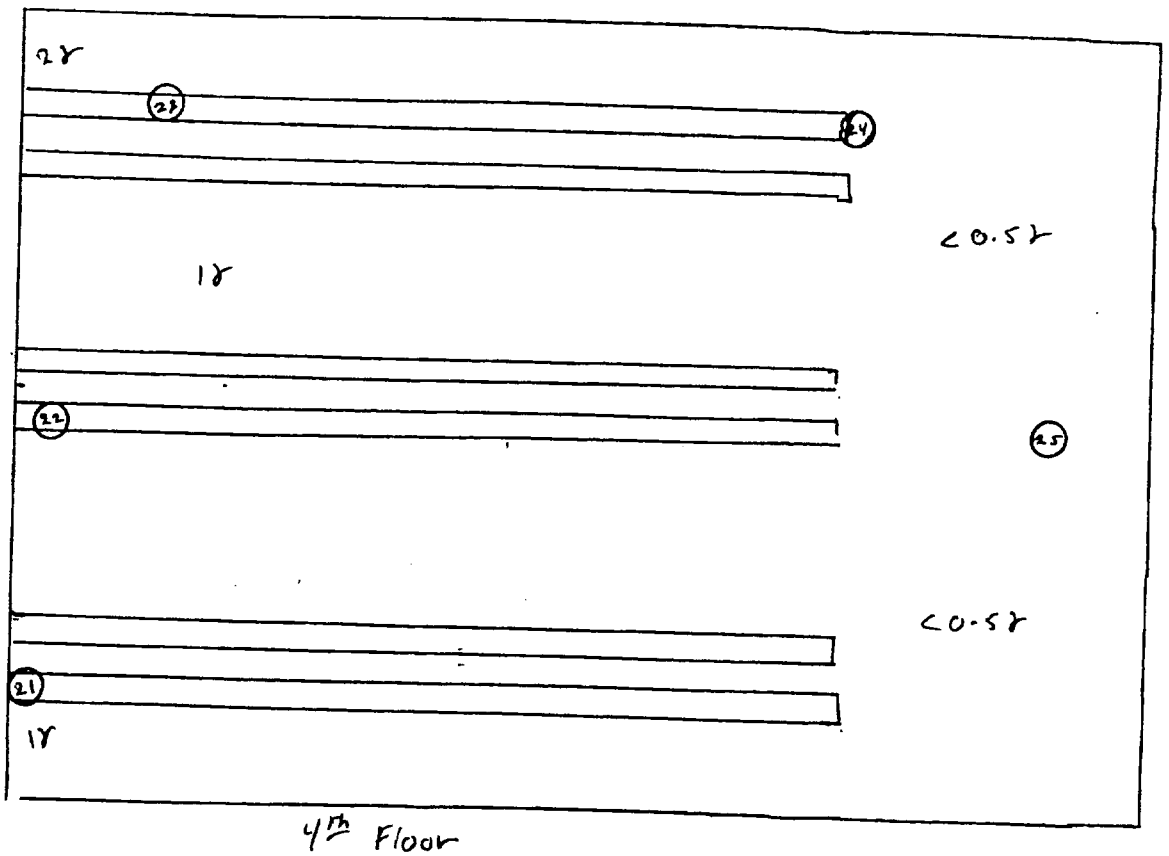


3rd Floor

Additional Information

(Drawing, Map, Etc.)

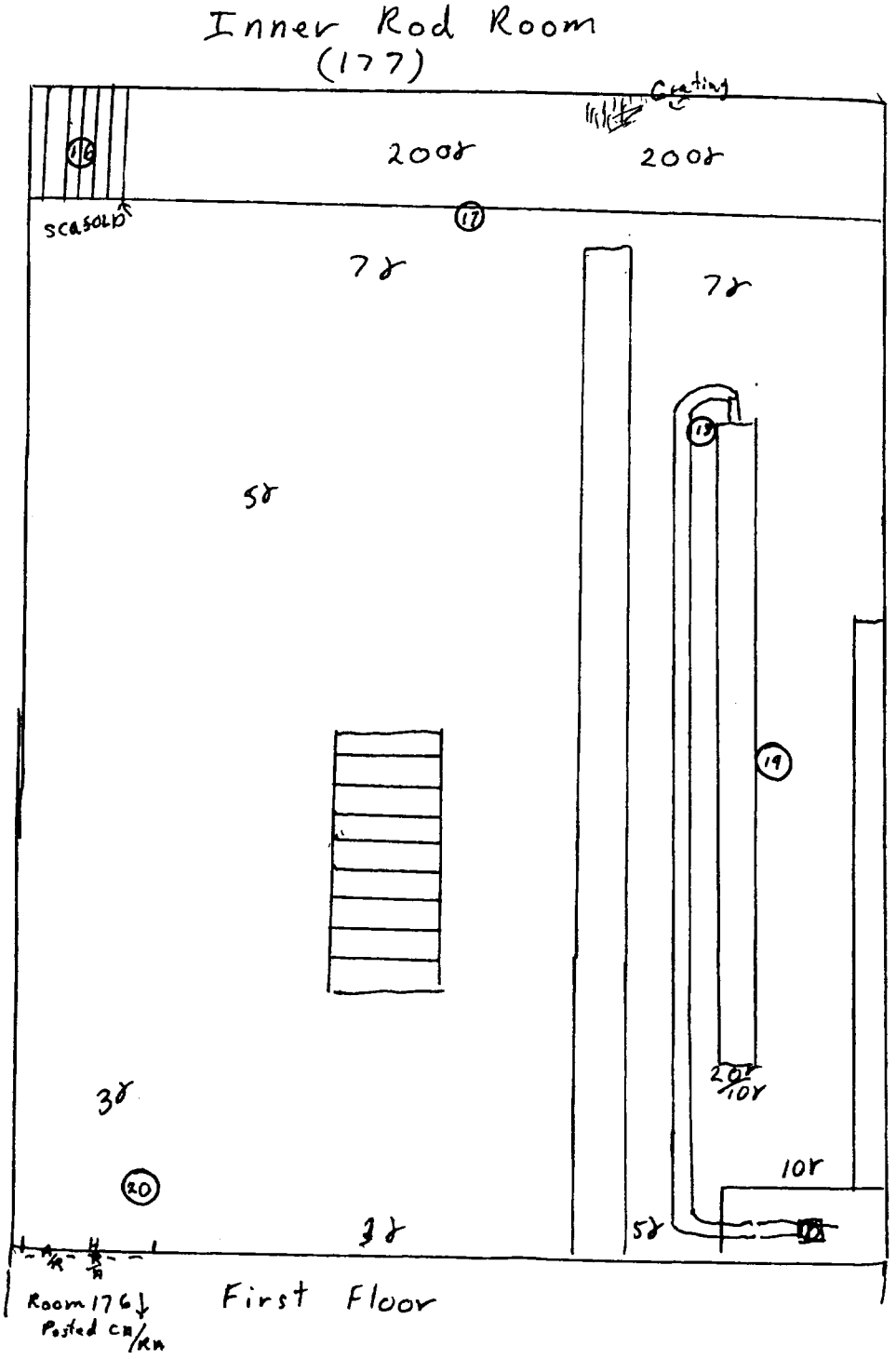
Outer Rod Room
(176)



4th Floor

Additional Information

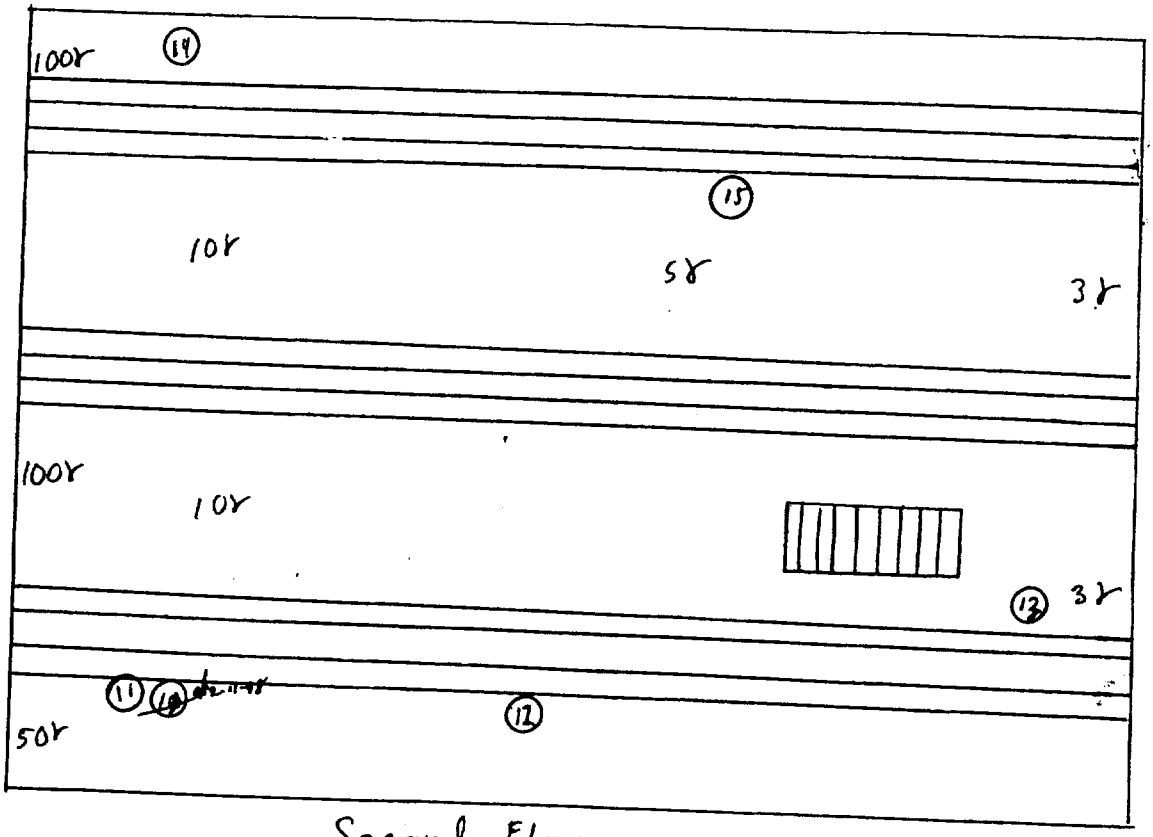
(Drawing, Map, Etc.)



Additional Information

(Drawing, Map, Etc.)

Inner Rod Room
(177)

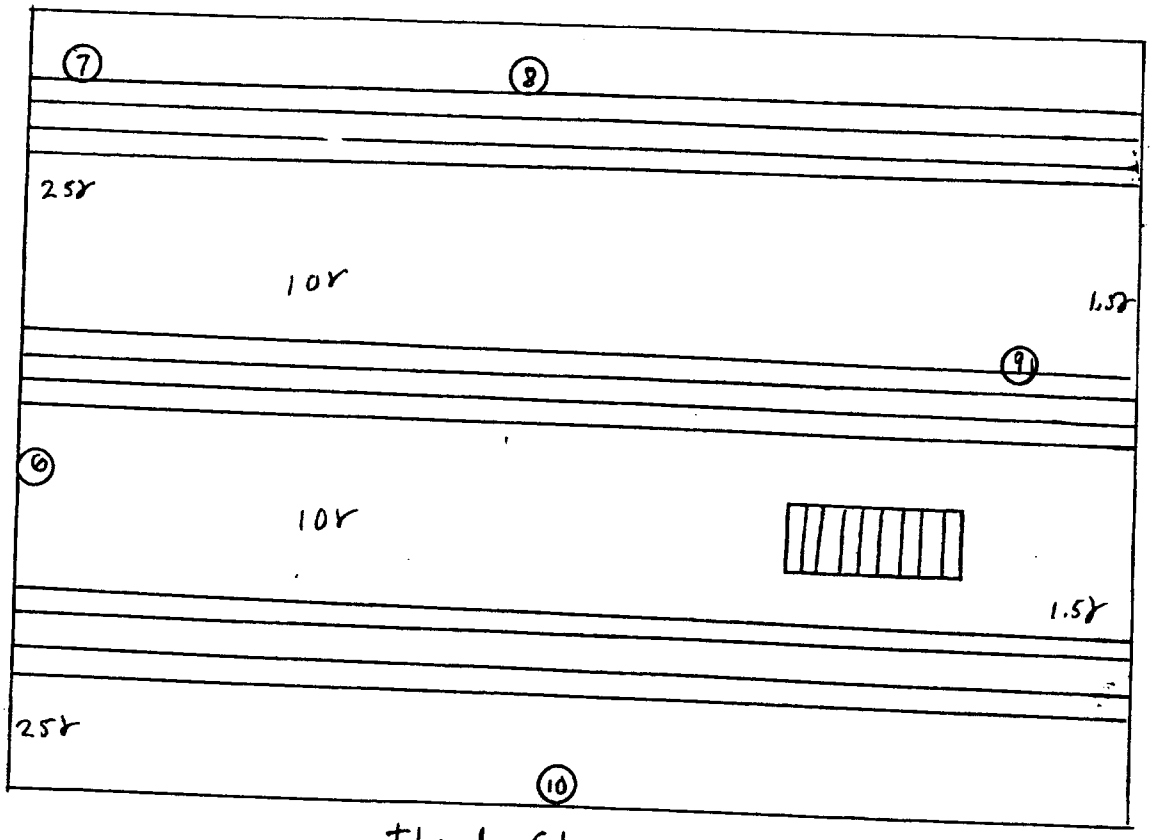


Second Floor

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room
(177)

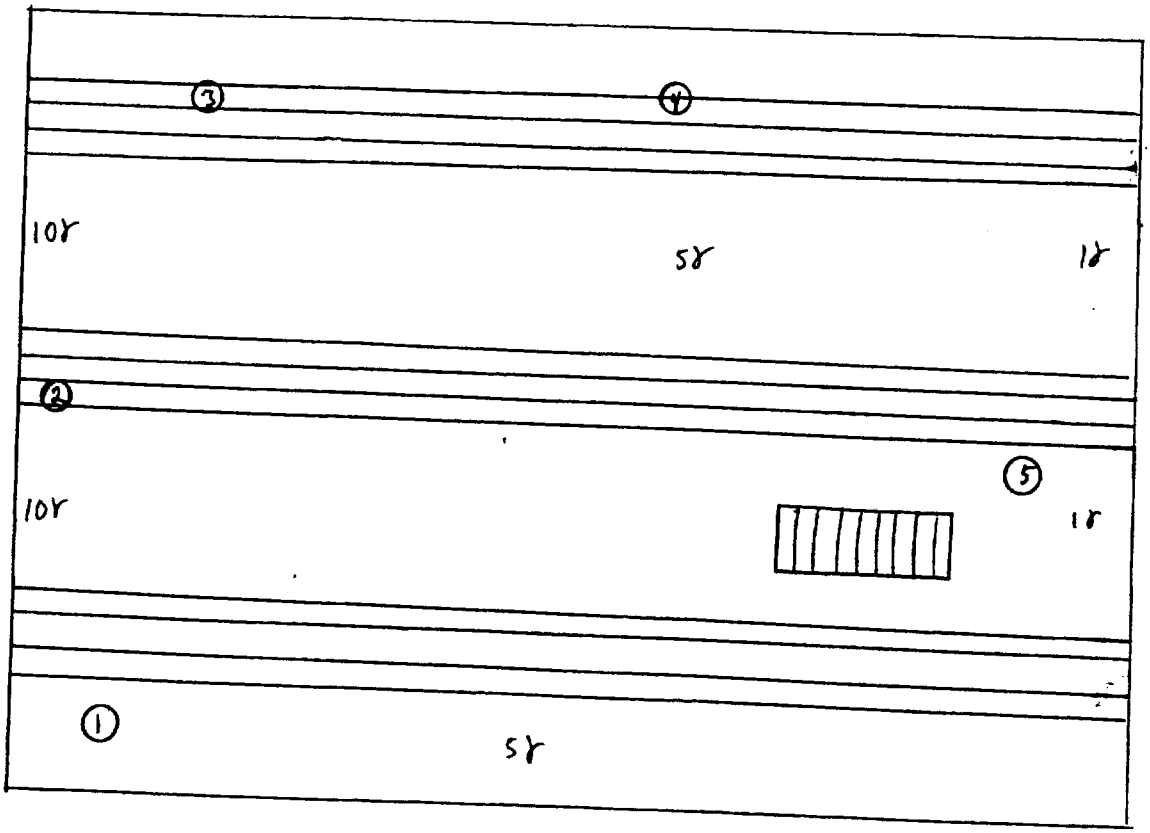


Third Floor

Additional Information

(Drawing, Map, Etc.)

Inner Rod Room
177



Fourth Level

3.5 109-N INDEX OF PHOTOS

Photo No.	Date	Description	Elev.
1	11/30/11	105-109N North Side Aerial Photo	Varies
2	11/30/11	105-109N South Side Aerial Photo	Varies
3	11/30/11	105-109N East Wall Aerial Photo	Varies
4	01/30/11	105-109N West Wall Aerial Photo	Varies
5	06/15/11	109N South Wall	Varies
6	06/15/11	109N East Wall	Varies
7	10/27/11	105-109N East Wall	Varies
8	10/27/11	105N East Wall	Varies
9	10/27/11	105N Northeast Wall	Varies
10	10/27/11	105N North Wall	Varies
11	10/27/11	105N Northwest Wall	Varies
12	05/04/11	109N Rm.104 South Wall Looking North	0'-0"
13	05/04/11	109N Rm.104 Floor Looking North	0'-0"
14	05/04/11	109N Rm.104 East Wall	0'-0"
15	05/04/11	109N Rm.104 West Wall	0'-0"
16	05/04/11	109N Rm.104 Ceiling Looking North	0'-0"
17	05/04/11	109N Rm.104 South Wall Looking South	0'-0"
18	05/04/11	109N Rm.103 Door Looking West	0'-0"
19	05/04/11	109N Rm.103 Northeast Corner-2 ea. Lead Blankets	0'-0"
20	05/04/11	109N Rm.103 North Floor Looking West	0'-0"
21	05/04/11	109N Rm.103 Floor Looking South	0'-0"
22	05/04/11	109N Rm.103 South Floor Looking West	0'-0"
23	05/04/11	109N Rm.103 North Wall Looking West	0'-0"
24	05/04/11	109N Rm.103 West Wall North End	0'-0"
25	05/04/11	109N Rm.103 South Wall Looking West	0'-0"
26	05/04/11	109N Rm.103 West Wall South End	0'-0"
27	05/04/11	109N Rm.103 East Wall Looking South	0'-0"
28	05/04/11	109N Rm.103 East Wall Looking North	0'-0"
29	05/04/11	109N Rm.103 North Ceiling Looking West	0'-0"
30	05/04/11	109N Rm.103 North Ceiling Looking East	0'-0"
31	05/04/11	109N Rm.103 South Ceiling Looking West	0'-0"
32	05/04/11	109N Rm.103 South Ceiling Looking East	0'-0"
33	05/04/11	109N Rm.106 Door Looking East	0'-0"
34	05/04/11	109N Rm.106 Floor Looking East	0'-0"
35	05/04/11	109N Rm.106 South Wall Looking East	0'-0"
36	05/04/11	109N Rm.106 East Wall Looking East	0'-0"
37	05/04/11	109N Rm.106 North Wall East End	0'-0"
38	05/04/11	109N Rm.106 West Wall	0'-0"
39	05/04/11	109N Rm.106 Ceiling Looking East	0'-0"
40	05/04/11	109N Rm.106 Ceiling Looking West	0'-0"
41	05/04/11	109N Rm.105 Floor	0'-0"
42	05/04/11	109N Rm.105 Ceiling	0'-0"
43	05/04/11	109N Rm.105 West Wall	0'-0"
44	05/04/11	109N Rm.105 East Wall	0'-0"
45	05/04/11	109N Rm.105 Sample Hood Looking North	0'-0"
46	09/01/10	109N Rm.307 East Wall	25'-0 1/2"
47	09/01/10	109N Rm.307 South Wall East End	25'-0 1/2"
48	09/01/10	109N Rm.307 South Wall Middle	25'-0 1/2"
49	09/01/10	109N Rm.307 South Wall West End	25'-0 1/2"
50	09/01/10	109N Rm.307 North Wall East End	25'-0 1/2"
51	09/01/10	109N Rm.307 North Wall Middle-East	25'-0 1/2"

Photo No.	Date	Description	Elev.
52	09/01/10	109N Rm.307 North Wall Middle-West	25'-0 1/2"
53	09/01/10	109N Rm.307 North Wall West End	25'-0 1/2"
54	09/01/10	109N Rm.307 West Wall South End	25'-0 1/2"
55	09/01/10	109N Rm.307 West Wall North End	25'-0 1/2"
56	09/01/10	109N Rm.307 Ceiling Looking East	25'-0 1/2"
57	09/01/10	109N Rm.307 Ceiling Looking West	25'-0 1/2"
58	09/01/10	109N Rm.307 Equipment	25'-0 1/2"
59	09/01/10	109N Rm.307 Floor Looking East	25'-0 1/2"
60	09/01/10	109N Rm.307 Floor Drain	25'-0 1/2"
61	04/19/11	109N Rm.307 East End Looking West	25'-0 1/2"
62	04/19/11	109N Rm.307 Middle Looking West	25'-0 1/2"
63	04/19/11	109N Rm.307 West End Looking NW	25'-0 1/2"
64	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
65	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
66	09/01/10	109N Rm.208 East Wall	12'-8 1/2"
67	09/01/10	109N Rm.208 Sink At East Wall	12'-8 1/2"
68	09/01/10	109N Rm.208 Floor Drain At East End	12'-8 1/2"
69	09/01/10	109N Rm.208 South Wall East End	12'-8 1/2"
70	09/01/10	109N Rm.208 South Wall West End	12'-8 1/2"
71	09/01/10	109N Rm.208 North Wall East End	12'-8 1/2"
72	09/01/10	109N Rm.208 North Wall Looking West	12'-8 1/2"
73	09/01/10	109N Rm.208 Floor Looking West	12'-8 1/2"
74	09/01/10	109N Rm.208 Ceiling Looking West	12'-8 1/2"
75	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
76	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
77	09/01/10	109N Rm.208 West Wall	12'-8 1/2"
78	04/19/11	109N Rm.208 Floor Drain	12'-8 1/2"
79	04/19/11	109N Rm.208 Floor Looking West	12'-8 1/2"
80	04/19/11	109N Rm.208 Floor Drain Sealed-West End	12'-8 1/2"
81	04/19/11	109N Rm.208 West End Cabinet-Sealed Drain Line	12'-8 1/2"
82	04/19/11	109N Rm.208 West End Looking North	12'-8 1/2"
83	09/01/10	109N Stair#7 Ground Level	0'-0"
84	09/01/10	109N Stair#7 Ground Level	0'-0"
85	09/01/10	109N Stair#7 Ground Level	0'-0"
86	09/01/10	109N Stair#7 El.12'-8 1/2" Looking Down	12'-8 1/2"
87	09/01/10	109N Stair#7 El.12'-8 1/2" Looking Up	12'-8 1/2"
88	09/01/10	109N Stair#7 El.25'-0 1/2" Looking Down	25'-0 1/2"
89	09/01/10	109N Stair#7 El.25'-0 1/2" Landing	25'-0 1/2"
90	02/15/12	109N Access Bldg. North Side	0'-0"
91	02/15/12	109N Access Bldg. Door	0'-0"
92	02/15/12	109N Access Bldg. Entry Door	0'-0"
93	02/15/12	109N Access Bldg. South Wall Above Grade	0'-0"
94	02/15/12	109N Access Bldg. East Wall Above Grade	0'-0"
95	02/15/12	109N Access Bldg. South Wall Below Grade	Minus16'-0"
96	02/15/12	109N Access Bldg. Stairway Looking East	Minus16'-0"
97	02/15/12	109N Access Bldg. West Wall Below Grade	Minus16'-0"
98	02/15/12	109N Access Bldg. Shield Door RAD Signs	Minus16'-0"
99	02/15/12	109N Access Bldg. Level Switches	Minus16'-0"
100	02/15/12	109N Access Bldg. North Wall Above Grade	0'-0"
101	02/07/12	109N Area Under SSE Roof-Access Door from 105N	40'-0"
102	02/07/12	109N Area Under SSE Roof-Access Door from 105N	40'-0"

Photo No.	Date	Description	Elev.
103	02/07/12	109N Area Under SSE Roof-North Wall East End	40'-0"
104	02/07/12	109N Area Under SSE Roof-E.Vent Valve Struct.Look E.	40'-0"
105	02/07/12	109N Area Under SSE Roof-East Wall Ctr.	40'-0"
106	02/07/12	109N Area Under SSE Roof-SW Corner	40'-0"
107	02/07/12	109N Area Under SSE Roof-South Wall E.End	40'-0"
108	02/07/12	109N Area Under SSE Roof-N.Wall E. of Pressurizer	40'-0"
109	02/07/12	109N Area Under SSE Roof-E.Wall of Pressurizer	40'-0"
110	02/07/12	109N Area Under SSE Roof-West 1/2 Roof	40'-0"
111	02/07/12	109N Area Under SSE Roof-West Side of Pressurizer	40'-0"
112	02/07/12	109N Area Under SSE Roof-N.Wall E. of Pressurizer	40'-0"
113	02/07/12	109N Area Under SSE Roof-Ctr.Vent Valve Struct.	40'-0"
114	02/07/12	109N Area Under SSE Roof-W.Vent Valve Struct.	40'-0"
115	02/07/12	109N Area Under SSE Roof-West Wall	40'-0"
116	02/07/12	109N Area Under SSE Roof-South Wall West End	40'-0"
117	02/07/12	109N Area Under SSE Roof-South Wall Ctr.	40'-0"
118	09/21/11	109N SSE Roof- Tie-In to South Side of 105N	Varies
119	09/21/11	109N SSE Roof- Tie-In to S. Side of 105N & Pressurizer	Varies
120	09/21/11	109N SSE Roof- Expansion Jt. Cover at Pressurizer	Varies
121	04/06/11	109N Pressurizer SSE Roof-NW Corner	Varies
122	04/06/11	109N Pressurizer SSE Roof-SW Corner	Varies
123	04/06/11	109N Pressurizer SSE Roof-East Side	Varies
124	04/06/11	109N Pressurizer SSE Roof-Bent Plate Closure	Varies
125	04/06/11	109N Pressurizer SSE Roof-Sealed Penetrations	Varies
126	04/06/11	109N Pressurizer SSE Roof-Cover Plate	Varies
127	04/06/11	109N Pressurizer SSE Roof-North Side	Varies
128	04/06/11	109N Pressurizer SSE Roof-NW Corner	Varies
129	04/06/11	109N Pressurizer SSE Roof-West Side	Varies
130	04/06/11	109N Pressurizer SSE Roof-SE Corner	Varies
131	04/06/11	109N Pressurizer SSE Roof-SE Corner	Varies
132	04/06/11	109N Pressurizer SSE Roof-South Side	Varies
133	04/06/11	109N Pressurizer SSE Roof-SW Corner	Varies
134	04/06/11	109N Pressurizer SSE Roof-Looking NW	Varies
135	04/06/11	109N Pressurizer SSE Roof-Looking North	Varies
136	04/06/11	109N Pressurizer-Top of Roof	Varies
137	04/20/11	109N Pressurizer SSE Roof-East Side	Varies
138	04/20/11	109N Pressurizer SSE Roof-North Side	Varies
139	04/20/11	109N Pressurizer SSE Roof-West Side	Varies
140	04/20/11	109N Pressurizer SSE Roof-South Side	Varies
141	04/20/11	109N Pressurizer SSE Roof-South Side Downspout	Varies
142	04/20/11	109N Pressurizer SSE Roof-NW Side	Varies
143	06/26/12	109N W.Wall N.End Pourbacks	Varies
144	07/10/12	109N W.Wall Below Grade Looking North	Varies
145	07/10/12	109N W.Wall Below Grade Pourback (10" BD Line)	Varies
146	07/10/12	109N W.Wall Below Grade Looking South	Varies
147	07/10/12	109N W.Wall Below Grade S.End	Varies
148	07/10/12	109N W.Wall Below Grade SW Corner	Varies

3.6 105-N INDEX OF PHOTOS

Photo No.	Date	Description	Elev.
201	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
202	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
203	04/14/10	105N Rm.4 East Wall	Minus 16'-0"
204	04/14/10	105N Rm.4 South Wall	Minus 16'-0"
205	04/14/10	105N Rm.4 South Wall	Minus 16'-0"
206	04/14/10	105N Rm.4 West Wall	Minus 16'-0"
207	04/14/10	105N Rm.4 West Wall	Minus 16'-0"
208	04/14/10	105N Rm.4 North Wall	Minus 16'-0"
209	04/14/10	105N Rm.4 North Wall	Minus 16'-0"
210	04/14/10	105N Rm.4 Floor-West Side	Minus 16'-0"
211	04/14/10	105N Rm.4 Floor-West Side	Minus 16'-0"
212	04/14/10	105N Rm.4 Floor-East Side	Minus 16'-0"
213	04/14/10	105N Rm.4 Electrical Panel Ctr.	Minus 16'-0"
214	04/14/10	105N Rm.4 Ceiling-Looking North	Minus 16'-0"
215	04/14/10	105N Rm.4 Ceiling-Looking South	Minus 16'-0"
216	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
217	04/14/10	105N Rm.5 Floor & Equipment- Looking SE	Minus 16'-0"
218	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
219	04/14/10	105N Rm.5 Electrical Equipment	Minus 16'-0"
220	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
221	04/14/10	105N Rm.5 Floor & Equipment	Minus 16'-0"
222	04/14/10	105N Rm.5 Floor & Equipment-SE Corner	Minus 16'-0"
223	04/14/10	105N Rm.5 North Wall-Looking West	Minus 16'-0"
224	04/14/10	105N Rm.5 Norht Wall-Looking East	Minus 16'-0"
225	04/14/10	105N Rm.5 South Wall Lead Int.Doors-Looking East	Minus 16'-0"
226	04/14/10	105N Rm.5 South Wall Lead Int.Doors-Looking West	Minus 16'-0"
227	04/14/10	105N Rm.5 Ceiling-Looking NE	Minus 16'-0"
228	04/14/10	105N Rm.5 Ceiling-Looking NE	Minus 16'-0"
229	04/14/10	105N Rm.5 Ceiling-Looking West	Minus 16'-0"
230	04/14/10	105N Rm.5 South Wall Lead Shot In Instr.Tray	Minus 16'-0"
231	04/14/10	105N Rm.5 South Wall Lead Shot In Instr.Tray	Minus 16'-0"
232	04/14/10	105N Rm.5 Rupture Monitor Equip.-Interior	Minus 16'-0"
233	04/14/10	105N Rm.5 Rupture Monitor Equip.-Interior	Minus 16'-0"
234	04/14/10	105N Rm.5 Rupture Monitor Equip.-Exterior	Minus 16'-0"
235	04/14/10	105N Rm.5 Rupture Monitor Equip.-Exterior	Minus 16'-0"
236	04/14/10	105N Rm.5 Lead Blankets Over Pipe-SW Corner	Minus 16'-0"
237	04/14/10	105N Rm.5 Lead Blankets Over Pipe-SW Corner	Minus 16'-0"
238	04/14/10	105N Rm.5 South Wall 14 ea. Lead Doors 3"x2'x8'	Minus 16'-0"
239	04/14/10	105N Rm.5 South Wall 14 ea. Lead Doors 3"x2'x8'	Minus 16'-0"
240	04/14/10	105N Rm.5 South Wall Lead Doors	Minus 16'-0"
241	04/14/10	105N Corridor 3-Looking West	Minus 16'-0"
242	04/14/10	105N Corridor 3-Looking East	Minus 16'-0"
243	04/14/10	105N Corridor 3 Ceiling-Looking West	Minus 16'-0"
244	04/14/10	105N Corridor 3 Ceiling-Looking East	Minus 16'-0"
245	02/15/12	105N Rm.7-Looking South	Minus 15'-0"
246	02/15/12	105N Rm.7-Looking West	Minus 15'-0"
247	02/15/12	105N Rm.7-Looking North	Minus 15'-0"
248	02/15/12	105N Rm.8 MCC Cabinets-Looking South	Minus 15'-0"
249	02/15/12	105N Rm.8-Looking West	Minus 15'-0"
250	02/15/12	105N Rm.8-West Wall North End	Minus 15'-0"
251	02/15/12	105N Rm.8-SE Corner	Minus 15'-0"

Photo No.	Date	Description	Elev.
252	02/15/12	105N Rm.9-Looking South	Minus 15'-0"
253	02/15/12	105N Rm.9-Looking North	Minus 15'-0"
254	10/23/11	105N Rm.23 C Elevator Pit-Looking West at Grtg.Walk	0'-6"
255	10/23/11	105N Rm.23 C Elevator Pit-Looking West at Int.Walls	0'-6"
256	10/23/11	105N Rm.23 C Elevator Pit-Looking West at Int.Walls	0'-6"
257	10/23/11	105N Rm.23 C Elevator Pit-Looking West at Grtg.Walk	0'-6"
258	10/23/11	105N Rm.23 C Elevator Pit-Looking West at Grtg.Walk	0'-6"
259	10/23/11	105N Rm.23 C Elevator Pit-Grtg.Wlkwy w/Lead Blank.	0'-6"
260	10/23/11	105N Rm.23 C Elevator Pit-Grtg.Wlkwy w/Lead Blank.	0'-6"
261	10/23/11	105N Rm.23 C Elevator Pit-Grtg.Wlkwy w/Lead Blank.	0'-6"
262	10/23/11	105N Rm.23 C Elevator Pit-Overhead View	0'-6"
263	10/23/11	105N Rm.23 C Elevator Pit	0'-6"
264	10/23/11	105N Rm.23 C Elevator Pit	0'-6"
265	10/23/11	105N Rm.23 C Elevator Pit-Grout & Lead Blankets	Minus 2'-0"
266	10/23/11	105N Rm.23 C Elevator Pit-Grout & Lead Blankets	Minus 2'-0"
267	10/23/11	105N Rm.23 C Elevator Platform-Looking West	0'-6"
268	10/23/11	105N Rm.23 C Elevator Platform-Looking NW	0'-6"
269	10/23/11	105N Rm.23 C Elevator Platform-Looking NE	0'-6"
270	10/23/11	105N Rm.23 C Elevator Platform-Overhead View NE	0'-6"
271	10/23/11	105N Rm.23 C Elevator Platform-Overhead View West	0'-6"
272	10/23/11	105N Rm.23 C Elevator Platform-East Side	0'-6"
273	10/23/11	105N Rm.23 C Elevator Platform	0'-6"
274	10/23/11	105N Rm.23 C Elevator Platform	0'-6"
275	10/23/11	105N Rm.23 C Elevator Platform	0'-6"
276	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
277	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
278	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
279	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
280	10/23/11	105N Rm.23 C Elevator-Elect.Cable for Level Switches	0'-6"
281	10/23/11	105N Rm.23 C Elevator-Elect.Cable for Level Switches	0'-6"
282	10/23/11	105N Zone I Level Switches/Brkt.-NW Corner	0'-6"
283	10/23/11	105N Zone I Level Switches/Brkt.-NW Corner	0'-6"
284	10/23/11	105N Rm.23 C Elevator-Elect.Cable for Level Switches	0'-6"
285	10/23/11	105N Elect. Cable for Level Switches-NW Corner	0'-6"
286	10/23/11	105N Elect. Cable for Level Switches-NW Corner	0'-6"
287	10/23/11	105N Elect. Cable for Level Switches-NW Corner	0'-6"
288	10/23/11	105N Zone I Level Switches/Brkt.-NW Corner	0'-6"
289	10/23/11	105N Zone I Level Switches Installed-NW Corner	Minus 16'-0"
290	10/23/11	105N Zone I Level Switches Installed-NW Corner	Minus 16'-0"
291	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
292	10/23/11	105N Ext.Shld.Door #231 East of Rm.23 C Elevator	0'-6"
293	10/23/11	105N Rm.23 C Elevator Platform-Looking East at Walk	0'-6"
294	10/23/11	105N Rm.23 C Elevator Platform-East Side	0'-6"
295	10/23/11	105N Rm.23 C Elevator Platform-Looking West	0'-6"
296	08/25/11	105N Rm.29 Front Face-Looking South (Overview)	0'-6"
297	08/25/11	105N Rm.29 Front Face-Looking South (Overview)	0'-6"
298	08/25/11	105N Rm.29 Front Face-Looking South (Overview)	0'-6"
299	08/25/11	105N Rm.29 Front Face-Looking South (Overview)	0'-6"
300	08/25/11	105N Rm.29 Front Face-Looking East (Overview)	0'-6"
301	08/25/11	105N Rm.29 Front Face-Looking East (Overview)	0'-6"
302	08/25/11	105N Rm.29 Front Face Shld.Door#408-Looking South	28'-3"

Photo No.	Date	Description	Elev.
303	08/25/11	105N Rm.29 Front Face-Looking West (Overview)	0'-6"
304	08/25/11	105N Rm.29 Front Face-Looking West (Overview)	0'-6"
305	08/25/11	105N Rm.29 Front Face Elect.Conduit-Looking South	0'-6"
306	08/25/11	105N Rm.29 Front Face-Elect.Conduit at East Wall	0'-6"
307	08/25/11	105N Rm.29 Front Face-Elect.Conduit at South Wall	0'-6"
308	08/25/11	105N Rm.29 Front Face-Elect.Conduit at Penetration	0'-6"
309	08/25/11	105N Rm.29 Front Face-Grouted Penetrations at Bott.	0'-6"
310	08/25/11	105N Rm.29 Front Face-Grouted Penetration E Side	0'-6"
311	08/25/11	105N Rm.29 Front Face-Grouted Penetration at Top	0'-6"
312	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
313	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
314	08/25/11	105N Rm.29 Front Face-Looking East (Inside)	0'-6"
315	08/25/11	105N Rm.29 Front Face-Floor Looking West	0'-6"
316	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
317	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
318	08/25/11	105N Rm.29 Front Face-Looking West (Inside)	0'-6"
319	08/25/11	105N Rm.29 Front Face-Base Angle Looking West	0'-6"
320	08/25/11	105N Rm.29 Front Face-Bent Plate Joint Closure	0'-6"
321	09/21/11	105N Rm.29 Front Face-Siding Enclosure (Exterior)	0'-6"
322	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
323	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
324	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
325	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
326	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
327	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
328	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
329	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
330	10/27/10	105N Rm.35 Pipe Tunnel-South End Looking South	Minus 21'-0"
331	08/03/11	105N Rm.35 Pipe Tunnel-Concrete Pourback N.End	Minus 21'-0"
332	10/25/10	105N Rm.37 NW Corner Doorway	Minus 10'-0"
333	10/25/10	105N Rm.37 Electrical Equipment-West Wall N.End	Minus 10'-0"
334	10/25/10	105N Rm.37 Rupture Monitor Equipl-West Wall S.End	Minus 10'-0"
335	10/25/10	105N Rm.37 Rupture Monitor Equip.-Looking East	Minus 10'-0"
336	10/25/10	105N Rm.37 Rupture Monitor Equip.-Looking East	Minus 10'-0"
337	10/25/10	105N Rm.37 North Wall	Minus 10'-0"
338	10/25/10	105N Rm.37 MCC Equip.-East Wall (North End)	Minus 10'-0"
339	10/25/10	105N Rm.37 East Wall (South End)	Minus 10'-0"
340	10/25/10	105N Rm.37 SE Corner (Mechanical Rm.)	Minus 10'-0"
341	10/25/10	105N Rm.37 SE Corner (Mechanical Rm.)	Minus 10'-0"
342	10/25/10	105N Rm.37 Lead Doors-South Wall Looking West	Minus 10'-0"
343	10/25/10	105N Rm.37 Lead Doors-South Wall Looking West	Minus 10'-0"
344	10/25/10	105N Rm.37 Lead Doors-South Wall Looking East	Minus 10'-0"
345	10/25/10	105N Rm.37 Rupture Monitor Equip.-Looking East	Minus 10'-0"
346	10/25/10	105N Rm.37 Inside Ctr. Rupture Monitor #8 (Empty)	Minus 10'-0"
347	10/25/10	105N Rm.37 Inside Perm. Rupture Monitor #8 (Empty)	Minus 10'-0"
348	10/25/10	105N Rm.37 Outside Rupture Monitor #8	Minus 10'-0"
349	10/26/10	105N Corridor #4-Looking South	Minus 10'-0"
350	10/26/10	105N Corridor #4-Looking South	Minus 10'-0"
351	10/26/10	105N Corridor #4-East Side Looking South	Minus 10'-0"
352	10/26/10	105N Corridor #4-South End Looking South	Minus 10'-0"
353	10/26/10	105N Corridor #4-South End at Door to Rm.#37	Minus 10'-0"

Photo No.	Date	Description	Elev.
354	10/26/10	105N Corridor #4-West Side Looking South	Minus 10'-0"
355	07/26/12	105N Rm.172-Exterior View Access Door With Awning	5'-0"
356	07/26/12	105N Rm.172-Exterior View Access Door With Awning	5'-0"
357	02/15/12	105N Rm.172-East Wall Access Door	5'-0"
358	02/15/12	105N Rm.172-South Wall (East End)	5'-0"
359	02/15/12	105N Rm.172-South Wall (West End)	5'-0"
360	02/15/12	105N Rm.172-Temp.Switches (South Wall)	5'-0"
361	02/15/12	105N Rm.172 Shld.Door-West Wall	5'-0"
362	02/15/12	105N Rm.172-Shld.Door RAD Signs-West Wall	5'-0"
363	02/15/12	105N Rm.172 R Elevator-North Wall	5'-0"
364	07/26/12	105N Rm.172 Door to Stair#6 w/Weld Plate-North Wall	5'-0"
365	02/15/12	105N Rm.172 Elect.& Instr.Panels-East Wall	5'-0"
366	02/15/12	105N Rm.173-Looking South	5'-0"
367	02/15/12	105N Rm.174-Looking South	5'-0"
368	02/15/12	105N Rm.302-Looking South at Entry Door	16'-6"
369	02/15/12	105N Rm.302-Looking West	16'-6"
370	02/15/12	105N Rm.302 Entry Door at Stair#6-Looking North	16'-6"
371	02/15/12	105N Rm.302 Shield Door-West Wall	16'-6"
372	02/15/12	105N Rm.302 Shield Door RAD Postings-West Wall	16'-6"
373	02/15/12	105N Rm.#302 R Elevator-Looking North	16'-6"
374	02/15/12	105N Rm.#302 Backside of Room-Looking South	16'-6"
375	02/15/12	105N Rm.#301 Doorway-Looking South	16'-6"
376	02/15/12	105N Rm.#301 Looking South	16'-6"
377	02/15/12	105N Rm.#301 Cover Plate Over Doorway-East Wall	16'-6"
378	02/15/12	105N Rm.301-Looking West	16'-6"
379	02/15/12	105N Rm.301-Lookng North	16'-6"
380	02/15/12	105N Rm.402 Doorway-Looking South	28'-3"
381	02/15/12	105N Rm.402-Looking South from Doorway	28'-3"
382	02/15/12	105N Rm.402-Looking West	28'-3"
383	02/15/12	105N Rm.402-Looking North at Doorway	28'-3"
384	02/15/12	105N Rm.402 R Elevator-Looking North	28'-3"
385	02/15/12	105N Rm.401-Looking South	28'-3"
386	02/15/12	105N Rm.401-Looking East	28'-3"
387	02/15/12	105N Rm.401-Looking North	28'-3"
388	02/15/12	105N Rm.401-Looking West	28'-3"
389	02/15/12	105N Rm.401 Shield Door-West Wall	28'-3"
390	02/15/12	105N Rm.401 Shield Door RAD Signs-West Wall	28'-3"
391	02/07/12	105N Rm.501&502-Looking South form Stairway #6	40'-0"
392	02/07/12	105N Rm.502-East Wall Looking South	40'-0"
393	02/07/12	105N Rm.502-West Wall	40'-0"
394	02/07/12	105N Rm.502 R Elevator-NW Corner	40'-0"
395	02/07/12	105N Rm.501-East Wall	40'-0"
396	02/07/12	105N Rm.501-West Wall	40'-0"
397	02/07/12	105N Rm.501South Wall & Door to 109N-Looking W.	40'-0"
398	02/07/12	105N Rm.503-North Wall Looking North	40'-0"
399	02/07/12	105N Rm.503-East Wall Looking North	40'-0"
400	02/07/12	105N Rm.503-West Sidel Looking South	40'-0"
401	02/07/12	105N Rm.503 Doorway & Stair#6/6A Landing	40'-0"
402	02/07/12	105N Rm.520-North End Looking North	51'-0"
403	02/07/12	105N Rm.520-South End Looking South	51'-0"
404	02/07/12	105N Rm.610-Looking North	60'-6"

Photo No.	Date	Description	Elev.
405	02/07/12	105N Rm.601-Looking South	60'-6"
406	02/07/12	105N Rm.613 Access Door from Rm.#601 & R Elevat.	60'-6"
407	02/07/12	105N Rm.602-Looking East	60'-6"
408	02/07/12	105N Rm.602-Looking West	60'-6"
409	02/07/12	105N Rm.603-Looking East Toward Rm.#602	60'-6"
410	02/07/12	105N Rm.603-Looking East Toward Rm.#613	60'-6"
411	02/07/12	105N Rm.603-Looking West	60'-6"
412	02/07/12	105N Rm.603-Looking South at Door to 109N Pressur.	60'-6"
413	02/07/12	105N Rm.606-East Side Looking North	60'-6"
414	02/07/12	105N Rm.606-NW Corner	60'-6"
415	02/07/12	105N Rm.606 Cover Plate at Door Opng.-NW Corner	60'-6"
416	02/07/12	105N Rm.606-West Side Looking South	60'-6"
417	02/07/12	105N Rm.611-Looking West	60'-6"
418	02/07/12	105N Rm.612 Doorway from Rm.#607-Looking East	60'-6"
419	02/07/12	105N Rm.607 Passive HEPA Filter-S.Side Looking W.	60'-6"
420	02/07/12	105N Rm.607 Passive HEPA Filter in Zone I Duct Wall	60'-6"
421	02/07/12	105N Rm.607Shld.Door at E. Wall of Rm.#608	60'-6"
422	02/07/12	105N Rm.607-NE Corner	60'-6"
423	02/07/12	105N Rm.607-Center Looking West	60'-6"
424	02/07/12	105N Rm.607-West Side Looking West	60'-6"
425	02/07/12	105N Rm.609 NW Corner-Looking West	60'-6"
426	02/07/12	105N Rm.609NW Corner-Looking East	60'-6"
427	02/15/12	105N R Elevator Pit-Looking from Bottom of Stair#6	Minus 24'-0"
428	02/15/12	105N R Elevator Pit-Looking SW	Minus 24'-0"
429	02/15/12	105N Stair#6 Level Switches-Bottom of Stair	Minus 24'-0"
430	02/15/12	105N Stair#6 Level Switches-N. Wall Bottom of Stair	Minus 24'-0"
431	02/15/12	105N Stair#6 +5' Landing-Looking from Above	5'-0"
432	02/15/12	105N Stair#6 +40' Landing-Looking Down	40'-0"
433	02/15/12	105N Stair#6A +60' Landing-Looking Up at Temp.Swit.	60'-6"
434	02/15/12	105N Stair#6A Temp.Switches-Top of Stair	60'-6"
435	02/15/12	105N Stair#6A +60' Landing-Looking Down to +40'	60'-6"
436	09/08/11	105N Area Under Main SSE Roof-SW Corner	Varies
437	09/08/11	105N Area Under Main SSE Roof-W.Side S.End	Varies
438	09/08/11	105N Area Under Main SSE Roof-Pressurizer Conn.	Varies
439	09/08/11	105N Area Under Main SSE Roof- SW Corner Conn.	Varies
440	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
441	09/08/11	105N Area Under Main SSE Roof-Looking East	Varies
442	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
443	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
444	09/08/11	105N Area Under Main SSE Roof-Cover Plate at Opng.	Varies
445	09/08/11	105N Area Under Main SSE Roof-Center Looking E.	Varies
446	09/08/11	105N Area Under Main SSE Roof-Hatch Cover	Varies
447	09/08/11	105N Area Under Main SSE Roof-Center Looking W.	Varies
448	09/08/11	105N Area Under Main SSE Roof-NW Corner	Varies
449	09/08/11	105N Area Under Main SSE Roof-Cover Plate at Opng.	Varies
450	09/08/11	105N Area Under Main SSE Roof-West Side Center	Varies
451	09/08/11	105N Area Under Main SSE Roof-N.Side Looking E.	Varies
452	09/08/11	105N Area Under Main SSE Roof-N.Side Looking W.	Varies
453	09/08/11	105N Area Under Main SSE Roof-Cover Plates W.End	Varies
454	09/08/11	105N Area Under Main SSE Roof-NW Corner Look N.	60'-6"
455	09/08/11	105N Area Under Main SSE Roof-NW Corner Look E.	60'-6"

Photo No.	Date	Description	Elev.
456	09/08/11	105N Area Under Main SSE Roof-N.Side Center	Varies
457	09/08/11	105N Area Under Main SSE Roof-N.Side Center	Varies
458	09/08/11	105N Area Under Main SSE Roof-N.Side Above Face	60'-6"
459	09/08/11	105N Area Under Main SSE Roof-N.Side Above Face	60'-6"
460	09/08/11	105N Area Under Main SSE Roof-N.Side at Front Face	60'-6"
461	09/08/11	105N Area Under Main SSE Roof-N.Side at Front Face	0'-6"
462	09/08/11	105N Area Under Main SSE Roof-N.Side Looking E.	Varies
463	09/08/11	105N Area Under Main SSE Roof-Cover Plates E.End	Varies
464	09/08/11	105N Area Under Main SSE Roof-East Side Center	Varies
465	09/08/11	105N Area Under Main SSE Roof-Stair#6A Cover Plate	Varies
466	09/08/11	105N Area Under Main SSE Roof-E.Side Looking S.	Varies
467	09/08/11	105N Area Under Main SSE Roof-Center Looking E.	Varies
468	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
469	09/08/11	105N Area Under Main SSE Roof-S.Side Looking E.	Varies
470	10/13/11	105N Main SSE Roof-Looking South at Pressurizer	Varies
471	10/13/11	105N Main SSE Roof-Flashing at Pressur. NW Corner	Varies
472	10/13/11	105N Main SSE Roof-Flashing at Ridge & Concrete	Varies
473	10/13/11	105N Main SSE Roof-Looking North	Varies
474	10/13/11	105N Main SSE Roof-Looking West	Varies
475	10/13/11	105N Main SSE Roof-Looking East	Varies
476	10/12/11	105N Main SSE Roof-Gutter at West Side	Varies
477	10/12/11	105N Main SSE Roof-Gutter Downspout & Support	Varies
478	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking SW	40'-0"
479	08/01/11	105N Area Under Rod Rm. SSE Roof-N.End Look W.	40'-0"
480	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Plate	40'-0"
481	08/01/11	105N Area Under Rod Rm. SSE Roof-Low Eave West	40'-0"
482	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking SW	40'-0"
483	08/01/11	105N Area Under Rod Rm. SSE Roof-South End	40'-0"
484	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Pl. at NW	40'-0"
485	08/01/11	105N Area Under Rod Rm. SSE Roof-N.Wall Siding	40'-0"
486	08/01/11	105N Area Under Rod Rm. SSE Roof-Floor Pl at NE	40'-0"
487	08/01/11	105N Area Under Rod Rm. SSE Roof-Looking East	40'-0"
488	08/01/11	105N Area Under Rod Rm. SSE Roof-Cover Pl. East	40'-0"
489	08/01/11	105N Area Under Rod Rm. SSE Roof-Door at SECorn.	40'-0"
490	08/01/11	105N Area Under Rod Rm. SSE Roof-S.End Lookg.W.	40'-0"
491	08/01/11	105N Area Under Rod Rm. SSE Roof-S. Wall Siding	40'-0"
492	08/02/11	105N Rod Rm. SSE Roof-North Wall Siding	Varies
493	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	Varies
494	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	Varies
495	08/02/11	105N Rod Rm. SSE Roof-Flashing Splice	Varies
496	08/02/11	105N Rod Rm. SSE Roof-South Wall Siding	Varies
497	08/02/11	105N Rod Rm. SSE Roof-Looking North	Varies
498	08/02/11	105N Rod Rm. SSE Roof-Flashing at Concrete Wall	Varies
499	08/18/11	105N Rod Rm. SSE Roof-North Wall Siding	Varies
500	08/18/11	105N Rod Rm. SSE Roof-Framing at NE Corner	40'-0"
501	08/18/11	105N Rod Rm. SSE Roof-Framing at NE Corner	40'-0"
502	08/18/11	105N Rod Rm. SSE Roof-West Wall Siding	Varies
503	08/18/11	105N Rod Rm. SSE Roof-West Wall Siding	Varies
504	08/18/11	105N Rod Rm. SSE Roof-Looking South	Varies
505	08/18/11	105N Rod Rm. SSE Roof-Flashing at Northeast Corner	Varies
506	08/18/11	105N Rod Rm. SSE Roof-Gutter at Main Roof W.Side	Varies

Photo No.	Date	Description	Elev.
507	08/18/11	105N Rod Rm. SSE Roof-Gutter at Main Roof W.Side	Varies
508	03/12/12	105N Main & Rod Rm. SSE Roof-Looking South	Varies
509	06/05/12	105N Rm.507-East End at Top of Stair#8	43'-6"
510	06/05/12	105N Rm.507-Looking East	43'-6"
511	06/05/12	105N Rm.507-Looking West	43"-6"
512	06/05/12	105N Rm.507-Ceiling Looking West	43'-6"
513	06/05/12	105N Rm.175-View Window & Platform-Looking NW	33'-9"
514	06/05/12	105N Rm.175-View Window & Platform-Looking NE	33'-9"
515	06/05/12	105N Stair#8-Looking Down from Platform	33'-9"
516	06/05/12	105N Rm.175-Intermediate Equipment-Looking North	15'-0"
517	06/05/12	105N Rm.175-North Wall	Varies
518	06/05/12	105N Stair#8-Looking East	1'-0"
519	06/05/12	105N Rm.175-Looking East	1'-0"
520	06/05/12	105N Rm.175-Looking West	1'-0"
521	06/05/12	105N Rm.175-Discharge Tunnel Cover Plates	1'-0"
522	06/05/12	105N Corridor#7-East End Cover Plate	5'-0"
523	06/05/12	105N Corridor#7-East End Looking West	5'-0"
524	06/05/12	105N Corridor#7-Center Looking West	5'-0"
525	06/05/12	105N Corridor#7-Center Looking West	5'-0"
526	06/05/12	105N Corridor#7-Center Looking East	5'-0"
527	06/05/12	105N Corridor#7-West End Looking West	5'-0"
528	06/05/12	105N Corridor#7-Ceiling West End	5'-0"
529	06/05/12	105N Corridor#7-West End Looking East	5'-0"
530	06/05/12	105N Corridor#7-FW Pipe at West End	5'-0"
531	06/05/12	105N Corridor#7-West End Looking East	5'-0"
532	07/17/12	105N Corridor#22-Shld.Door at East Wall	0'-0"
533	07/17/12	105N Corridor#22-Looking North	0'-0"
534	07/17/12	105N Corridor#22-Looking North	0'-0"
535	07/17/12	105N Corridor#22-Looking NE	0'-0"
536	07/17/12	105N Corridor#22-Looking South	0'-0"
537	07/17/12	105N Corridor#22-Looking SE	0'-0"
538	07/17/12	105N Corridor#22-Looking SW	0'-0"
539	07/17/12	105N Corridor#22-Floor Looking South	0'-0"
540	07/19/12	105N Corridor#22 North Wall & N. Wall of Rod Rm.	Varies
541	07/19/12	105N Corridor #22 W. Wall & W. Wall of Rod Rm.	Varies
542	07/19/12	105N West Wall Below Grade-N. of Rod Rm.	Varies
543	07/19/12	105N West Wall Above Grade-N. of Rod Rm.	Varies
544	07/19/12	105N W. Wall Below Grade Between Rod Rm. & 109N	Varies
545	07/19/12	105N W. Wall Above Grade Between Rod Rm. & 109N	Varies